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TIME SPENT IN INDIRECT NURSING CARE

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1. It has been noted that some material was left out of AMEDD Study titled: Time Spent In Indirect Nursing Care, LTC Terry R. Misener. Final report 83-004, Health Care Studies and Clinical Investigation Activity, Government Accession Number DA 301090.

2. The following changes will be made:


a) Page 14, line 16. Change (0.5%). to read (10.5%).

b) Insert page 13-B, APPENDIX 13 Cont.

3. Questions may be referred to Mr. R. J. Plaia, 221-6028/5671.

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as


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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Part of the FY 83 Army Study Program and intended to augment the FY 81 completed study titled "Nursing Care Hours Standards" by providing valid and reliable percentages for hospital patient nursing care unit requirements (i.e., direct care, indirect care, and non-productive time). These data provide the Army Nurse Corps with the necessary statistics to more objectively determine manpower requirements. Work sampling techniques were used at nine CONUS HSC medical treatment facilities of varying bed capacity by surveying six services (where available, i.e., medical-surgical, intensive care, obstetrics, pediatrics,		

psychiatric, and neonatal). CONCLUSIONS: (1) Across all MTFs, percentages of time spent by inpatient nursing personnel are: direct care (24.5%); indirect care (60.5%); and unavailable for patient care (15.0%); (2) The most variance (in direct care and unavailable for care) appeared to be a function of hospital size and the mix of personnel assigned; (3) Times spent in each activity were as expected, however, differences among the clinical services (obstetrics and Medical-surgical particularly) indicate a different yardstick might be considered for each of the six services; (4) Subjective reports from charge nurses expressed their opinions as to the adequacy of staffing for each shift observed as 24.0% inadequate, most often cause "not enough staff on duty", "above average number of patients needing extensive nursing care, assistance, or surveillance"; and "not an optimal mix of personnel skill levels." Most often cited remedy was "need for an additional RN for the entire shift" selected by 57.0% of respondents. RECOMMENDATION: Findings of this study be combined with those from a patient classification study currently being conducted by the Nursing Research Service at Walter Reed Army Medical Center. Model staffing guides should be developed and tested at selected facilities to determine adequacy of staffing and quality of care.

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TIME SPENT IN INDIRECT NURSING CARE

SUMMARY. Current manpower standards are inadequate to determine inpatient care requirements and staffing needs for Army hospital nursing units. A previous Army study (Sherrod, Rauch, and Twist, 1981) provided reliable and valid data upon which to quantify direct patient care needs. The current study was commissioned by the Army Nurse Corps to answer the question: What percentage of time is spent by inpatient nursing service personnel in each of three temporal categories: direct care, indirect care, and time unavailable for patient care. Nine hospitals were selected throughout Health Services Command (HSC) to perform a work sampling study. Investigators trained data collectors at each site and demonstrated interrater reliability using a modification of a tool used in the "San Joaquin Study" instrument (Murphy, Dunlap, Williams, and McAthie, 1978). For compatibility with the Sherrod study, data collection was carried out on each of six clinical services: medical-surgical, pediatrics, intensive care, psychiatry, neonatal, and obstetrics. A random process was used to select clinical units within each service and days of the week for data collection. On each service, ten eight-hour shifts per medical treatment facility (MTF) were monitored over a two week period (five days, three evenings, and two nights). Nursing service staff were monitored every ten minutes on each selected shift for a total of 107,700 data points. Personnel were classified into the following categories for data collection: a) head nurse; b) wardmaster; c) RN (to include civilians and ANCs); d) 91C; e) 91B; f) aide/nursing assistant; and g) ward clerk. Across all nine installations for all personnel, the following percentage of time spent by nursing care providers was reported: direct care 24.5%; indirect care 60.5%; and unavailable for patient care 15.0%.

These findings were highly comparable to those reported in the civilian literature. To provide nurse managers with a more definitive analysis, the indirect care category was broken into eight substrata: communicative acts; preparation of medications, supplies, and equipment; clerical and charting; conferences; travel and transportation; administration; environmental controls; and wait time.

The indirect care percentages tended to be highly similar across all MTFs with a range of 58.6% to 64.6%. Unavailable for care percentages for all hospitals were more variable (range = 11.9-21.2%). Direct care percentages, by facility, from 17.5% to 29.2% overall, with two installations considered as outliers at the low end.

When examined by clinical service for all sites, the unavailable for care components were extremely close (13% to 16.7%) with critical care and medical-surgical having the highest percentages. Direct care by service ranged from 18.9% for obstetrics to 31.3% for the neonatal service. Obstetrics tends to have erratic demands. A valid reason for the higher percentage in neonatal occurs because in the newborn nursery, when a staff member holds an infant, it is considered direct care. When the indirect care component was examined across services, the range was 54.6% (neonatal service) to 62.9% (medical-surgical).

The results of this study combine with the Sherrod findings to provide objective data upon which to project manpower needs for Army nursing service personnel. A question for further study concerns the non-linear relationship of the three temporal elements. As direct care requirements increase, indirect requirements do not necessarily increase in a linear manner. Furthermore, the reported findings reflect "what is" and not "what should be."

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1. INTRODUCTION.

a. Purpose. The overall purpose of this study was to objectively measure the percentage of time spent by nursing personnel on inpatient clinical services providing direct and indirect care. In addition, the amount of time personnel were unavailable to provide care was documented. The study findings, when combined with the results of the Nursing Care Hours Standards Study (NCHS) (Sherrod et al., 1981), have potential implications for every department of nursing at all medical treatment facilities throughout the Army as an objective report of the time spent by nursing personnel in carrying out their mission. This provides data for a reassessment of manpower yardsticks.

b. Background. The Army Nurse Corps (ANC) has long been convinced that current patient classification system and patient census provide an inadequate basis to determine inpatient nursing care requirements and staffing for nursing units. To document inpatient nursing needs, NCHS was carried out by the Health Care Studies Division (HCSD), Directorate of Combat Developments, US Army Academy of Health Sciences, Fort Sam Houston, Texas. Due to the complexity of the project, LTC S. Sherrod, ANC, the Principal Investigator for the NCHS, limited her data collection to the direct care needs of patients, i. e., "physical or sensory interaction with the patient having direct bearing on his needs such as: physical care of the patient, assisting the doctor with examinations, treatment or procedure, talking with the patient about his condition, health teaching needs, etc."

LTC Sherrod and her co-investigators developed standard time frequencies for an extensive list of direct care nursing tasks in six major inpatient clinical areas: medical-surgical, intensive care, psychiatric, pediatrics, neonatal, and obstetrics. The Sherrod study has been cited as having the most comprehensive and best documented task list to be found anywhere in the nursing literature (Giovanetti, 1982).

In addition to the patient classification system, the Sherrod study developed staffing mix ratios. These ratios were specific for each of the six nursing areas and reflected the levels of personnel actually observed rendering the direct care.

To complete the work begun by the NCHS, the ANC deemed it necessary to provide valid and reliable measurements of the time spent by nursing personnel in other than the direct care activities. These activities were subsumed under two additional rubrics: indirect patient care and unavailable for patient care.

Indirect patient care activities are defined as those tasks performed away from the patient and include such tasks as: communications, planning his care, assessing his needs, preparation of medications and equipment, team conferences, etc. Unavailable for patient care times include those activities of personnel not directed toward patient care or unit management which detract from time available for patient care. The majority of these tasks are performed off the nursing unit.

It was not known whether the percentages of times spent in nursing activities differ across clinical services, across MTFs, or between civilian and military hospitals. In the civilian environment, extensive work has been carried out by Lake (1982) using work sampling to document the percentages of time spent in nursing tasks. In the community hospital setting, he reports the following divisions of labor by nursing personnel: a) direct patient care (28-35%); b) indirect care (50-62%); and c) personal time (10-15%). In comparing the current data with those from Lake, it is necessary to know that he utilized four major activity categories vs three. In his studies, indirect care is compartmentalized into an indirect component (charting, communication about patients, preparing medication, and transcribing orders) and a unit-related component (housekeeping, clerical, communication with others, errands, meetings, and supplies). Very preliminary analysis carried out by the Veteran's Administration (VA) on

medical-surgical units show the following percentages: a) direct care (38-45%); b) indirect care (37-49%); and c) personal time (13-18%) (Kuhn, 1983). It must be noted that, in the VA data, wait time (time waiting to render care) has been subsumed under personal time.

2. OBJECTIVES.

a. Determine the percentage of time spent by inpatient nursing service personnel in each of three temporal categories: direct care, indirect care, and unavailable for care.

b. Across the three temporal categories, compare the percentage of time spent among all nine medical treatment facilities surveyed.

c. Compare the time spent in each of the three temporal categories by various nursing service personnel within and among services and facilities.

3. METHODOLOGY.

a. Overview. Using a work sampling method, nine medical treatment facilities (MTFs) were surveyed to quantify the percentage of time spent by nursing service personnel over a representative two week period. Times were subsumed under a rubric of activities consisting of 11 strata. A total of 107,700 ten-minute time segments were monitored during the study; this equates to 17,817 hours of nursing time. At the end of each shift observed (n=461), the charge nurses filled out a survey form to supply basic demographic data pertaining to the nursing unit in addition to their subjective opinions concerning the adequacy of staffing for that shift. Also, the number of admissions, discharges, and transfers (ADTs) per nursing unit were reported.

b. Procedures.

(1) In consultation with COL C. Slewitzke, ANC, Assistant Chief of the Army Nurse Corps, and the Study Director, COL M. Walls, ANC, potential study sites within HSC were identified to provide a representative mix of MFTs by size, nursing unit configuration, and the mission of the population supported.

Several Department of Nursing chiefs and their respective MTF commanders were consulted regarding their willingness to support the study. Nine sites were selected: Brooke Army Medical Center, TX (BAMC); Ft Hood, TX; Ft Leonard Wood, MO; Ft Campbell, KY; Ft Carson, CO; Fitzsimons Army Medical Center, CO (FAMC); Ft Devens, MA; Ft Belvoir, VA; and Ft Lee, VA. A letter from the Commander, HCSCIA, was transmitted to the commander of each selected MTF and requested formal permission to conduct the study (see Appendix 1). All answered in the affirmative.

(2) The Chief, Department of Nursing, at each MTF provided the Principal Investigator (PI) with three items: a) a list of all inpatient nursing units broken down by clinical service (i. e., medical-surgical, pediatrics, neonatal, psychiatry, intensive care, and obstetrics); b) a point of contact at each site; and c) the names of two to seven nursing personnel who would be trained to serve as data collectors at the site.

(3) Using a table of random numbers, the study staff selected nursing units from within each clinical service to collect data. Data collectors were assigned to gather data on randomly selected days over a two-week period. Data were collected on 10 eight-hour shifts within the two-week period, randomly selecting the following shift configurations: a) five days; b) three evenings; and c) two nights (see Appendices 2 to 10).

(4) A data collection form (see Appendix 11) was developed as a modification of a previous study from the US Public Health Service, Division of Nursing, referred to as the "San Joaquin Study" (Murphy et al, 1978). The modifications included changes in operational definitions and expansion of off-the-unit/unavailable for care activities to be more responsive to Army practices and needs. From the same study, a modified tool (see Appendix 12) was developed to be completed by the charge nurse at the end of shift on each of the monitored nursing units. The survey was to determine the basic nursing

unit demographics and allow the charge nurse to subjectively assess the adequacy of the staffing on the shift and to report the number of admissions and dispositions during the tour of duty. Forms were pilot tested at BAMC for validity checks to insure capturing necessary data and to assure that the operational definitions (see Appendix 13) encompassed all of the nursing tasks and time allocations. This also provided an opportunity to carry out checks of interrater reliability measurements, which were essentially 100%. Minor modifications were made in the instruments and instructions to insure ease of use and to clarify operational definitions.

(5) A civilian consultant, with knowledge and experience in training and carrying out a work sampling study, was contracted to review the protocol and train study staff in the method. She jointly trained with the investigators at two facilities and observed the HCSCIA study staff train at one additional site. The study staff subsequently carried out training at the remaining five sites. An outline of the training scenario is found at Appendix 14. As a part of the didactic orientation, data collectors were given two tests (see Appendices 15 and 16) to insure reliability in classification of activities. Further training included two observation periods on typical nursing units allowing data collectors the opportunity to become familiar with the instrument and to further insure interrater reliability. Training and data collection occurred between 28 February 1983 and 31 April 1983.

(6) The basic method for data collection was work sampling, a technique reported by Abdellah and Levine (1954). The method entails collecting data at predetermined intervals; then based upon sampling theory, extrapolating the findings over the entire monitored period of time. Time spent in each of the 11 activity categories was recorded for nursing service personnel at each ten-minute interval during the entire eight-hour shift. The first task observed being performed by the monitored person was the activity documented.

Nursing personnel were assured of not being individually evaluated; data were to be part of aggregate findings. Staff quickly adjusted to the observers and it was not felt that behaviors changed due to observation. During training, data collectors were taught to begin monitoring at random points on the surveyed nursing unit, travel on varied routes, and to begin their observations at random times for each observed segment.

(7) One data collection form was completed per hour on each of the observed nursing units. At the completion of the data collection period, all forms were forwarded to HCSCIA along with a time schedule for the assigned personnel on each nursing unit and the charge nurse survey forms for each shift. Data were key punched by HCSSA at Ft Sam Houston, TX, and analyzed using the Statistical Package for the Social Sciences (SPSS) and Statistical Analysis Systems (SAS).

4. FINDINGS

a. Instruments. The findings are based on two instruments: the "objective form" used to collect the work sampling data and the "subjective form" from a survey completed by the charge nurse at the end of each monitored shift. The work sampling data comprised 107,700 data points or ten minute segments of monitored time, equating to 17,817 hours of nursing service time across all nine study sites. The subjective findings are reported from the 461 forms completed by charge nurses. Because of the large number of data points, the reporting of statistical significance lacks value. Only descriptive statistics will be reported in most instances.

b. Data Collection Period. Table 1 presents the breakout of data collection by month. Table 2 breaks out the data acquisition by day of the week. Table 3 subsumes the hourly data into three shifts.

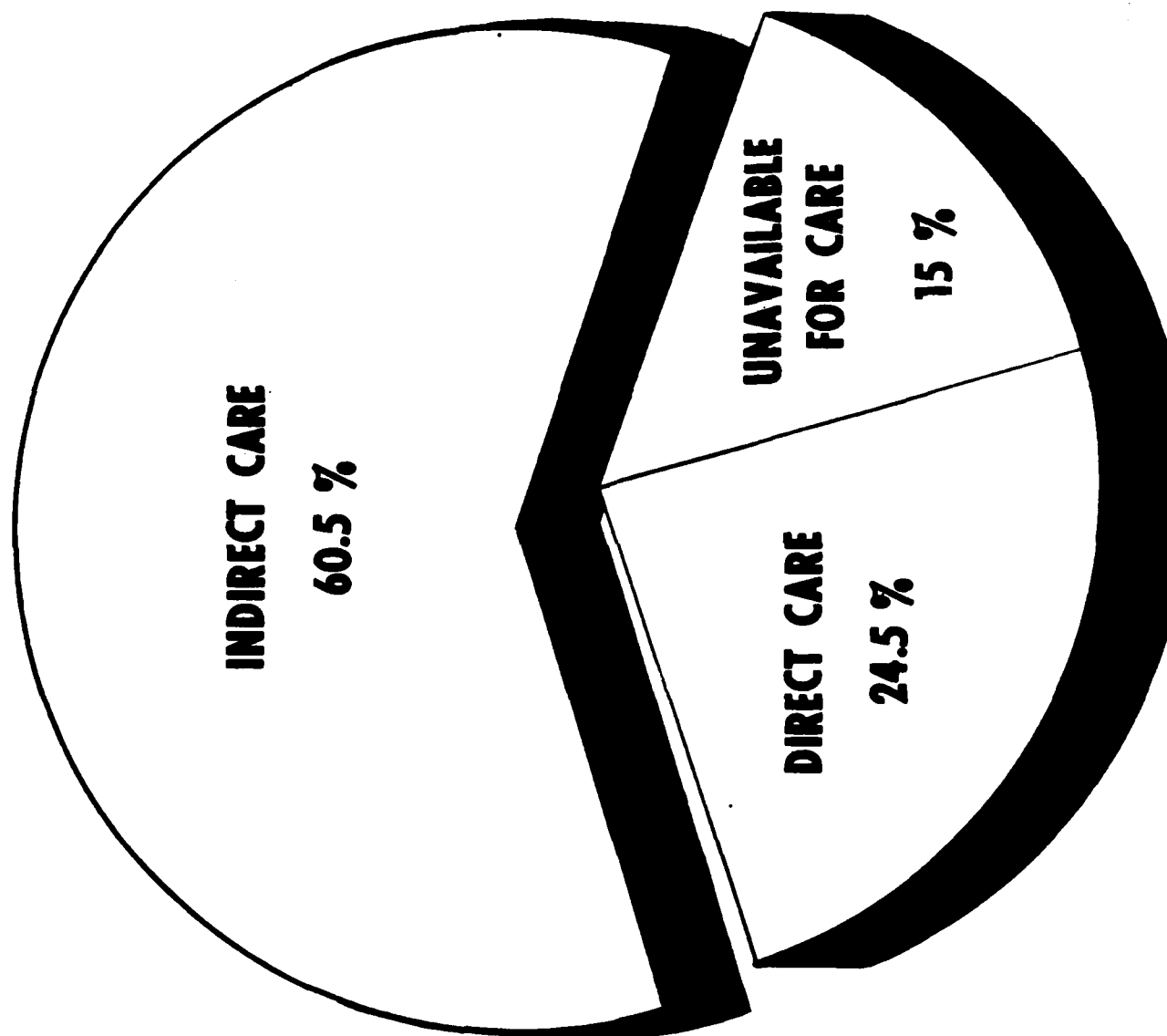
c. Data by Service. Chief nurses submitted lists of their nursing units representing 17 categories. Table 4 presents the data collected by the 17 original clinical settings. To make the data compatible with the Sherrod study, the nursing units were subsumed under the six clinical services of interest: critical care, medical-surgical, psychiatry, OB-labor-delivery, newborn nursery-neonatal intensive care, and pediatrics-pediatric intensive care (see Table 5).

d. Composite MTF Findings for Objective Data. Table 6 delineates the frequency and percentages of total data collected at each of the MTFs in the study. Across all sites and services, 60.5% of nursing time was spent providing indirect care; 24.5% providing direct care; and 15.0% was reported as time unavailable for care (see Figure 1). Table 7 presents the percentages of time spent in each of the three temporal activities across all MTFs. Noteworthy are findings for the indirect care across sites. None of the sites vary more than 4.1% points from the mean (60.5%). To provide a more definitive report for each of the 11 activities monitored, Table 8 and Figure 2 are provided. Table 9 reports the six clinical services and their proportion of the total data by MTF.

The activities of all full-time nursing service personnel were monitored on each ward studied. Table 10, 11, and 12 provide the percentage of data points by all nursing service personnel, nursing personnel by MTF, and nursing personnel by activity performed. A cursory examination of the data revealed a tendency for installations with a higher ratio of RN to non-professional staff to also have a higher proportion of time spent in direct care activities ($r=.61$, $p < .10$).

When all 11 tasks/activities are examined by each category of care provider, several interesting findings are revealed. Head nurses spent 14.5% of their time in direct care. Only 2.0% of time by all providers is spent in environmental tasks. Even the obstetrical service, with its high cleaning requirements, only spends 3.1% of personnel time in environmental efforts.

PERCENTAGE OF MAJOR NURSING ACTIVITY CATEGORIES COMBINED FOR ALL MTFs



PERCENTAGE OF TIME SPENT BY NURSING PERSONNEL IN 11 ACTIVITIES ACROSS ALL MTFs

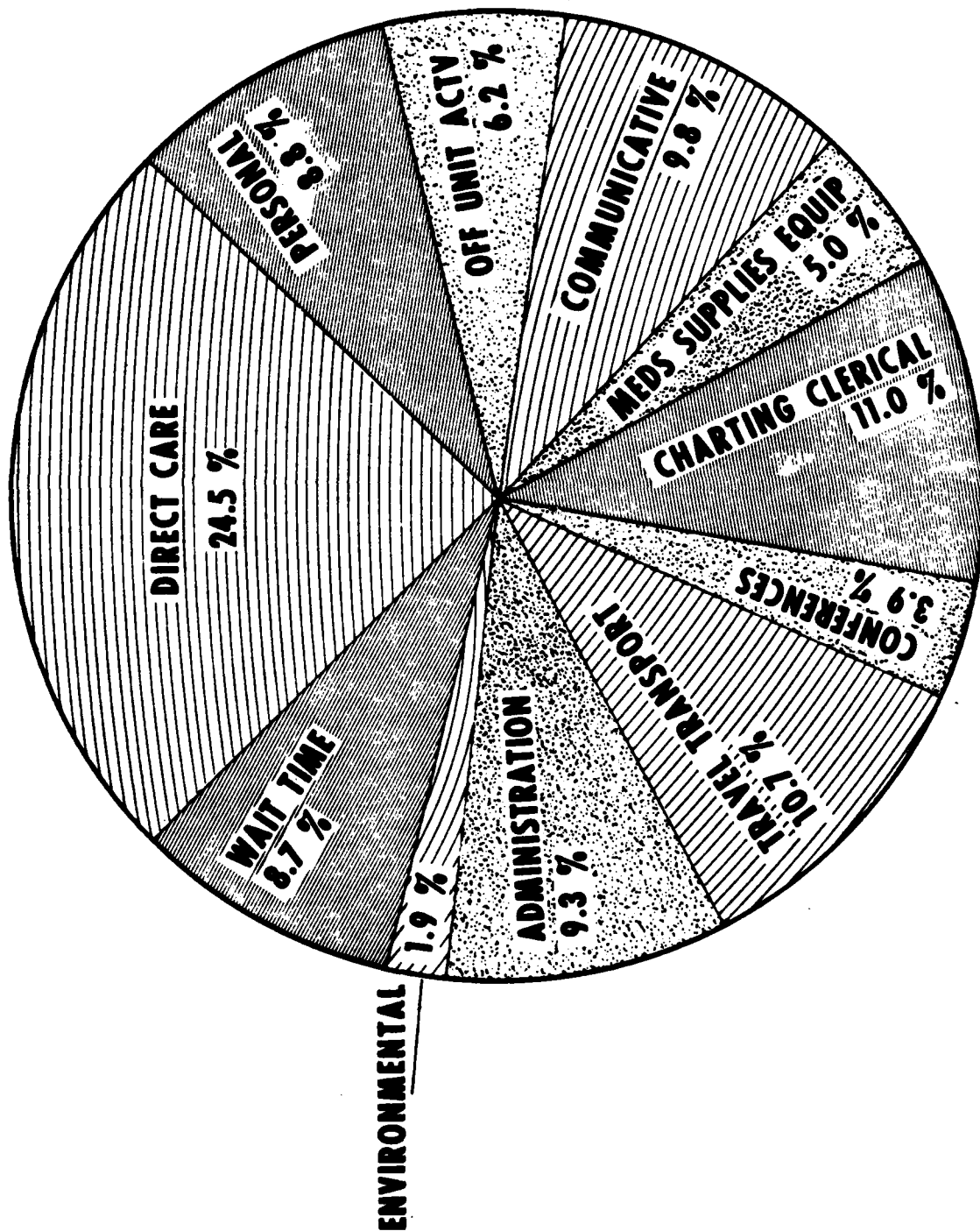


Figure 2

Charting and clerical tasks consume 11.0% of overall time, while travel and transportation activities take 10.7% of nursing personnel time. The percentage of time spent waiting is 8.7%. Head nurses spent only 1.6% of their time waiting, however, LPNs, Aides, and 91B/F/G personnel, respectively, spent 13.0%, 13.2%, and 12.5% of their time waiting.

Table 13 truncates the 11 individual activities into the three temporal activity categories by type of provider. Table 14 provides an overview of the contribution of each type of provider by the six clinical services for the entire data set.

The next two tables present the clinical service findings for the entire data set by the 11 activities (see Table 15), and the three temporal activity categories by service (see Table 16). This latter table substantiates that the percentage of direct care provided is highest for the newborn/neonatal intensive care (31.3%) and critical care units (29.8%), with the least amount of direct care reported for the obstetrical service (18.9%). The indirect care requirements are highest for obstetrics (65.6%) and lowest for the newborn nurseries and neonatal intensive care units (54.6%).

Tables 17, 18, and 19 present the service by activity categories for day, evening, and night shifts, respectively. Direct care time changes from an overall mean of 24.5% to 30.3% on the evening shift and unavailable time drops precipitously from 18.0% on the day shift to 4.1% on the night shift, when fewer personnel are on duty and when fewer extraneous off-the-ward duties are required.

Because the major objective of the study was to examine indirect care, the eight activities subsumed under indirect care were analyzed separately across all MTFs. Tables 20-23 present these findings in a composite fashion, and then by facility, provider, and service respectively. Proportions of total time are

not affected; however, a clearer picture is gained of the individual indirect tasks as compared to all other indirect factors (see Figure 3). Communicative acts, charting/clerical, and administrative functions account for 49.9% of the indirect care with travel and transportation components consuming 17.7% of this subsection. Table 22 illuminates the amount of indirect time that RNs (excluding head nurses) spend in charting and clerical activities (24.9%), whereas ward clerks only spend 33.7% of their time in the same function.

e. Findings by MTF. The data to this point has been based on the aggregate. Appendices (17-25) are provided for each MTF.

f. Composite MTF Findings for Subjective Data. The subjective data were gathered at the end of each monitored shift via a survey questionnaire completed by the charge nurse. Study personnel briefed head nurses on the instrument and then requested that they, in turn, train their charge nurses. Operational definitions were not provided and the form was, by necessity, completed at the end of the shift, at the same time the nurses in charge were confronted with several other tasks that they might have felt to be more relevant. These findings would have been enhanced had the data collectors also subjectively rated the staffing adequacy for the shift observed. Given these possible limitations, four pieces of data were examined: 1) admissions, discharges, and transfers (ADTs) on the shift; 2) the nurses' rating of the adequacy of the staffing for the shifts; 3) the possible causes for the less than adequate staffing; and 4) possible remedies for the staffing situation.

When admissions and discharges were tabulated across all reports, 46.4% of the observed shifts had no admissions and 52.3% of the shifts had no discharges. When ADTs were combined, 33.3% of the shifts reported no ADTs; 51.5% had one or fewer ADTs; 65.4% had two or fewer ADTs; and 72.0% reported three or fewer ADTs. The range of the ADTs for all MTFs combined were 0-21 on days, 0-7 on evenings,

**PERCENTAGE OF TIME SPENT BY NURSING PERSONNEL
IN INDIRECT CARE ACTIVITIES ACROSS ALL MTFs**

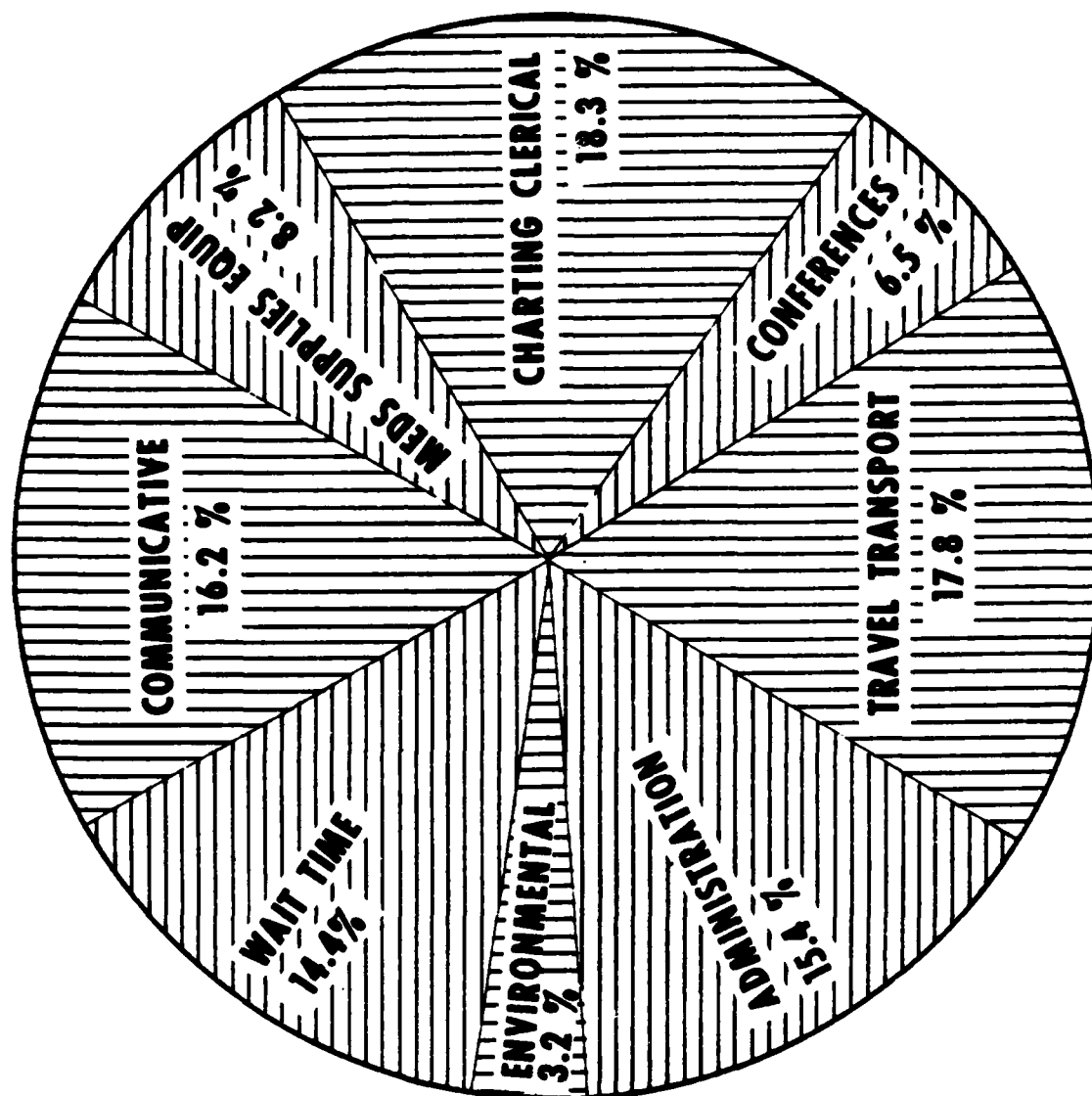


Figure 3

and 0-8 on nights. To compare the number of ADTs by MTF on each of the day, evening, and night shifts, Table 24 is presented. Across all MTFs, 50.9% (n=234) of ADTs occur on the day shift; 29.1% (n=134) of the ADTs were on the evening shift; and 20.0% (n=92) of the ADTs occurred on the night shift. Noteworthy is the closeness of the percentages of ADTs by shift across all MTFs regardless of size and configuration.

The gross indicator of the overall staffing adequacy were the charge nurses' subjective reports. Across all sites, from the 461 charge nurse reports, 24.0% of the shifts were rated as staffed inadequately (4.8%, n=22) or barely adequate (19.3%, n=89). When the less than adequate staffing responses were examined, the day shifts were found to be most inadequately staffed with the inadequate response reported on 30.2% (n=70) shifts. Evening and night shifts were reported to be less than adequately staffed on 18.6% (n=25) and 17.4% (n=16) respectively.

The relationships between adequacy of staffing and the percentage of time spent in each of the temporal categories were examined. The correlation between the percentage of time spent providing indirect care and staffing adequacy was not found to be significant. However, a significant correlation ($r=0.22$, $p < .001$) was demonstrated between the percentage of direct care rendered and staffing. As the percentage of time spent in direct care increases, the charge nurses' perceptions about the adequacy of staffing decrease. It is not possible to correlate the staffing adequacy and unavailable for care times because of several possible interactions, i. e., when staffing is perceived to be adequate, the charge nurse may tend to award compensatory time to staff.

If the staffing was "barely adequate" or "inadequate" (n=111), the charge nurse was provided a list of multiple factors which might describe the reasons for this: 55.0% indicated "not enough staff on duty"; 53.0% selected "above average number of patients needing extensive nursing care, assistance, or

surveillance"; 34.0% stated there was "not an optimum mix of personnel skill levels"; 27.0% indicated a "census fluctuation"; and 19.0% responded "above average number of patients needing escort by nursing or other departments." When asked what would have helped the less than adequate staffing situation, 57.0% responded "an additional RN all shift"; 34.0% indicated the need for "an additional aide all shift"; and 27.0% felt that "an additional LPN all shift" would have relieved the situation.

Charge nurses were asked to "please judge the following aspects of care according to your best knowledge of nursing service given to at least 90.0% of the patients during this shift. Consider factors such as safety, accuracy, patient comfort and satisfaction, and agreement with medical and nursing plans of care" (see Appendix 12). Two components of nursing care were found to be judged less than satisfactory at least ten percent of the time:

a) communications with patient and/or family (explanation of procedures, teaching, orientation, "therapeutic socializing" (10.7%); and b) rounds with or assist MD with special procedures (0.5%). The remaining eight categories of care (see Appendix 12) were rated as less than satisfactory from 4.5-8.5% of the time. While these figures may appear low, the referent for judgement was only 90.0% of the patient census. For the same ten items, 53.2-78.3% of the time the charge nurse deemed the care to be "more than satisfactory" or "good."

5. DISCUSSION.

The documentation of how nursing service personnel spend their duty time at nine HSC installations with varying configurations and missions shows that the percentage of times do not differ substantively from those reported in the civilian literature (Lake, 1982), given that operational definitions and categorizations are slightly different. The overall direct care percentages in this study would have been higher if certain components of indirect care; i. e., travel/transportation and equipment set-up and tear-down times, had been subsumed

under direct care. However, conforming to the Sherrod study, direct care activities only encompassed "bedside-to-bedside" tasks. THE CURRENT STUDY MEASURES WHAT IS AND NOT WHAT SHOULD BE. No attempt was made to indicate quality of care, only quantities of time spent.

The findings for the direct care category are not as consistent when examined across MTFs and clinical specialties. The single factor which appears to erode most at direct care time is time unavailable for care. When enlisted personnel make up a high percentage of the staff, particularly at small installations, the amount of time off the unit increases. When the number of RNs increases, so does the amount of direct care. These findings may have implications when reconfiguring the yardsticks for manpower allocations.

The data also indicate that wait time spent by LPNs, Aides, and the 91B, F, and G, may be high. This is perhaps a function of their being unable to perform tasks needing to be done, being unable to recognize what needs to be done, or lacking motivation. Likewise, head nurses may spend too much time giving direct care (14.5%). Perhaps more of the head nurse time might be redirected to teaching, supervising, and motivating other staff members.

Although the objective data are reliable, the subjective data must be viewed with caution. It was possible to determine probable causes for a feeling of inadequate staffing reported in 24.0% of the instances and the charge nurse could enumerate the classification of personnel that would possibly remedy the situation.

Several chief nurses have indicated that the number of admissions, dispositions, and transfers on any given shift are a real and significant problem. However, attempts to correlate the numbers of ADTs with several other variables (including adequacy of staffing) failed to demonstrate any relationship. Either the variables which correlate with ADTs were not identified, the relationships are non-linear, there are multi-casual factors, or the variables interactive.

The findings of this study coupled with patient classification studies (i.e., the amount of direct care needed by patients), allows for a close examination of manpower requirements for nursing personnel throughout the Army. A caveat is necessary: as direct care requirements increase, it is not necessarily true that indirect care and unavailable for care requirements will increase in a linear relationship. Further study may be required to develop alternative staffing methodologies.

6. CONCLUSIONS.

a. Across all MTFs surveyed, the percentages of time spent by inpatient nursing service personnel in each of three temporal categories are: direct care (24.5%), indirect care (60.5%); and unavailable for patient care (15.0%). These findings are comparable to previous civilian studies.

b. A comparison of the times spent in each of the three temporal categories among all nine MTFs studied demonstrated that the most variance was in the temporal categories of direct care and unavailable for care. Differences appeared to be a function of hospital size and the mix of personnel assigned.

c. The times spent in each of the activities were not different from that expected. However, the differences among the clinical services, especially obstetrics and medical-surgical, indicate that a different yardstick might be considered for each of the six services.

d. From the reports of charge nurse opinions of the adequacy of staffing for each observed shift, 24.0% of the shifts were felt to be inadequately staffed. The major reasons for the staffing problems were in order of their selection: "not enough staff on duty"; "above average number of patients needing extensive nursing care, assistance, or surveillance"; and "not an optimal mix of personnel skill levels." The most often cited remedy for alleviating the staffing problem was the "need for an additional RN for the entire shift," which was selected by 57.0% of the respondents.

7. RECOMMENDATIONS.

It is recommended that the findings for this study be combined with those from a patient classification study currently being conducted by the Nursing Research Service at Walter Reed Army Medical Center. Model staffing guides should be developed and tested at selected facilities to determine adequacy of staffing and quality of care.

8. LITERATURE CITED.

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TABLES

Table 1

TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT
FEBRUARY	2	18	.0
MARCH	3	79110	73.5
APRIL	4	28572	26.5
		-----	-----
TOTAL		107700	100.0

Table 2

TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	7206	6.7	6.7	6.7
MONDAY	2	14226	13.2	13.2	19.9
TUESDAY	3	21060	19.6	19.6	39.5
WEDNESDAY	4	20310	18.9	18.9	58.3
THURSDAY	5	21690	20.1	20.1	78.5
FRIDAY	6	15366	14.3	14.3	92.7
SATURDAY	7	7842	7.3	7.3	100.0
		-----	-----	-----	
	TOTAL	107700	100.0	100.0	
VALID CASES	107700	MISSING CASES	0		

Table 3

TIME SPENT IN INDIRECT NURSING CARE STUDY
SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT
DAY	1	69630	64.7
EVENING	2	24660	22.9
NIGHT	3	13410	12.5
		-----	-----
	TOTAL	107700	100.0

Table 4

TIME SPENT IN INDIRECT NURSING CARE STUDY
ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT
	*	144	.1
MED	1	8232	7.6
SURG	2	11346	10.5
MED SLRG COMBO	3	2550	2.4
ORTHOPEDIC	4	2748	2.6
OB	5	8016	7.4
LABOR & DELIVERY	6	3390	3.1
OB L&D COMBO	7	4638	4.3
NEWBORN	8	13002	12.1
PEDS	9	16146	15.0
SICU	10	3384	3.1
MICU	11	1950	1.8
CCU	12	1740	1.6
ICU COMBO	13	10584	9.8
NICU	14	2316	2.2
PSYCHIATRY	16	12366	11.5
PED ICU	17	1956	1.8
ICU STEP DOWN M S	18	3192	3.0
		-----	-----
	TOTAL	107700	100.0

* Missing

Table 5

TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT
	*	144	.1
CRITICAL CARE	1.00	17658	16.4
MED SURG	2.00	28068	26.1
PSYCHIATRY	3.00	12366	11.5
OB LABOR DELIVERY	4.00	16044	14.9
NBN NICU	5.00	15318	14.2
PEDS PICU	6.00	18102	16.8
		-----	-----
	TOTAL	107700	100.0

* Missing

Table 6

TIME SPENT IN INDIRECT NURSING CARE STUDY
DATA COLLECTION SITES

VALUE LABEL	VALUE	FREQUENCY	PERCENT
BROOKE AMC	1	17748	16.5
DARNALL COMM HOSP	2	13932	12.9
GEN WOOD COMM HOSP	3	12582	11.7
CAMPBELL COMM HOSP	4	12282	11.4
FITZSIMONS AMC	5	21276	19.8
DEWITT COMM HOSP	6	9282	8.6
FORT CARSON HOSP	7	11214	10.4
FT DEVENS COMM HOSP	8	3276	3.0
FORT LEE COMM HOSP	9	6108	5.7
		-----	-----
	TOTAL	107700	100.0

Table 7

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY DATA COLLECTION SITE

COUNT		MTF																				RJM	
COL	PCI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TOTAL	
UNAVAILABLE		1	2110	1	1929	1	2667	1	1736	1	3179	1	1129	1	1690	1	655	1	1094	1	16189	1	15.0
			13.0	1	11.9	1	16.5	1	10.7	1	19.6	1	7.0	1	10.4	1	4.0	1	6.8	1	15.0	1	17.9
			11.9	1	13.8	1	21.2	1	14.1	1	14.9	1	12.2	1	15.1	1	20.0	1	17.9	1	17.9	1	17.9
INDIRECT CARE		2	10969	1	8219	1	7568	1	7470	1	12795	1	5629	1	7128	1	1919	1	3944	1	65136	1	60.5
			16.1	1	12.5	1	11.6	1	11.5	1	19.6	1	8.6	1	10.9	1	2.9	1	6.1	1	60.5	1	60.5
			59.0	1	59.0	1	60.1	1	60.8	1	60.1	1	63.6	1	63.6	1	58.6	1	64.6	1	64.6	1	64.6
DIRECT CARE		3	5174	1	3784	1	2367	1	3076	1	5302	1	2524	1	2386	1	702	1	1070	1	26375	1	24.5
			19.6	1	14.3	1	8.9	1	11.7	1	20.1	1	9.6	1	9.1	1	2.7	1	4.1	1	24.5	1	24.5
			29.2	1	27.2	1	18.7	1	25.0	1	24.9	1	27.2	1	21.4	1	21.4	1	17.5	1	17.5	1	17.5
COLUMN TOTAL			17746	1	13932	1	12582	1	12282	1	21276	1	9282	1	11214	1	3276	1	6108	1	107700	1	100.0
			16.5	1	12.9	1	11.7	1	11.4	1	19.8	1	3.6	1	10.4	1	3.0	1	5.7	1	100.0	1	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 8

TIME SPENT IN INDIRECT NURSING CARE STUDY
ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT
DIRECT CARE	-1	26375	24.5
PERSONAL	0	9477	8.8
OFF UNIT ACTV	1	6712	6.2
COMMUNICATIVE	2	10606	9.8
MEDS SUPPLIES EQUIP	3	5435	5.0
CHARTING CLERICAL	4	11853	11.0
CONFERENCES	5	4223	3.9
TRAVEL TRANSPORT	6	11532	10.7
ADMINISTRATION	7	10054	9.3
ENVIRONMENTAL	8	2097	1.9
WAIT TIME	9	9336	8.7
		-----	-----
	TOTAL	107700	100.0

TIME SPENT IN INDIRECT NURSING CARE STUDY
SERVICE BY DATA COLLECTION SITE

NUMBER OF MISSING OBSERVATIONS = 144

Table 10

TIME SPENT IN INDIRECT NURSING CARE STUDY
CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT
	*	318	.3
HEAD NURSE	1	7926	7.4
WARDMASTER	2	8634	8.0
RN	3	34812	32.3
91C	4	8988	8.3
LPN	5	10308	9.6
91B 91F 91G	6	21120	19.6
AIDE	7	9264	8.6
WARD CLERK	8	6330	5.9
		-----	-----
	TOTAL	107700	100.0

* Missing

Table 11

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY DATA COLLECTION SITE

MTF													RCM TOTAL
COUNT	ROM PCT	IBROCKE	A DARNALL	GEN 4000	CAMPBELL	FITZSIMO	DEWITT	C FORT	CAR FT	DEVEN	FORT LEE		
COL PCT	IMC	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	COMM HCS	
		11	21	31	41	51	61	71	81	91			
HEAD NURSE	1	1452	930	1110	954	1506	774	720	192	288	7926		
	1	18.3	11.7	14.0	12.0	19.0	9.8	9.1	2.4	3.6	7.4		
	1	8.2	6.8	8.8	7.8	7.1	5.4	6.4	5.9	4.7			
NURSEMASTER	2	1410	1152	1200	1116	1524	388	768	192	384	8634		
	1	16.3	13.3	13.9	12.9	17.7	13.3	8.9	2.2	4.4	8.0		
	1	7.9	6.4	9.5	9.1	7.2	3.7	6.8	5.9	5.3			
RN	3	6522	4658	3736	3540	7962	2980	3174	570	1630	34812		
	1	18.7	15.5	10.9	10.2	22.9	3.3	29.1	1.6	4.8	32.4		
	1	36.7	34.2	30.1	28.9	37.4	31.3	28.3	17.4	27.5			
NIC	4	1728	342	956	630	1218	1568	1542	336	558	8988		
	1	19.2	3.8	10.7	7.0	13.5	19.6	17.2	3.7	5.2	8.4		
	1	9.7	2.5	7.7	5.1	5.7	18.1	13.8	10.3	9.1			
LPN	5	738	324	1134	1866	2622	192	2400	156	316	10308		
	1	7.2	3.1	11.6	18.1	25.4	1.9	23.3	1.5	7.9	9.6		
	1	4.2	2.4	9.5	15.3	12.3	2.1	21.4	4.8	13.4			
SIB 916 916	6	3324	3360	3132	1842	3978	1452	1194	1338	1530	21120		
	1	15.7	15.9	14.7	8.7	18.8	5.9	5.7	6.3	7.2	19.7		
	1	18.7	24.4	24.7	15.1	18.7	15.8	10.6	40.8	25.0			
AIDE	7	1254	2226	816	1614	1194	762	624	300	474	9264		
	1	13.5	24.0	8.8	17.4	12.9	9.2	6.7	3.2	5.1	8.6		
	1	7.1	16.2	6.5	13.2	5.6	9.3	5.6	9.2	7.8			
WARD CLERK	8	1320	714	408	672	1272	582	792	192	378	6330		
	1	20.9	11.3	6.4	10.6	20.1	9.2	12.5	3.0	5.0	5.9		
	1	7.4	5.2	3.2	5.5	6.0	5.3	7.1	5.9	6.2			
CULLMAN		17748	13746	12592	12234	21275	9198	11214	3276	5138	107382		
TOTAL		16.5	12.8	11.7	11.4	19.9	9.6	13.4	3.1	5.7	100.0		

NUMBER OF MISSING OBSERVATIONS = 318

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT		ROW PCT		COL PCT		I		DIRECT		C		PERSONAL		OFF		UNIT		COMMUNIC		MEDS		SUP		CHARTING		CONFEREN		TRAVEL		I		ADMINIST		ENVIRON		MAINT		TIM		ROW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

NUMBER OF MISSING OBSERVATIONS = 318

TIME SPENT IN INDIRECT NURSING CARE STUDY

COUNT		PROV															TOTAL			
ROW	PCT	ISE	HEAD	NUR	WARD	PAST	RN	ER	91C	LPN	91B	91F	AIDE	WARD	CLE	RJW				
COL	PCT	ISE	1	11	21	31	41	51	61	71	81	91G	91G	91G	91G	91G				
PERTOT																				
UNAVAILABLE		1	1	1358	1	2050	1	3999	1	1582	1	1302	1	3429	1	1042	1	1385	1	16147
		1	8.4	1	12.7	1	24.8	1	9.8	1	8.1	1	21.2	1	6.5	1	8.6	1	15.0	
		1	17.1	1	23.7	1	11.5	1	17.6	1	12.6	1	16.2	1	11.2	1	21.9	1		
INDIRECT CARE		2	1	5421	1	5880	1	21603	1	4664	1	6022	1	11301	1	5293	1	4753	1	65017
		1	8.3	1	9.0	1	33.2	1	7.2	1	9.3	1	17.5	1	8.1	1	7.3	1	60.5	
		1	68.4	1	68.1	1	62.1	1	51.9	1	58.4	1	53.9	1	57.1	1	75.1	1		
DIRECT CARE		3	1	1147	1	704	1	9210	1	2742	1	2984	1	6310	1	2929	1	192	1	26218
		1	4.4	1	2.7	1	35.1	1	10.5	1	11.4	1	24.1	1	11.2	1	.7	1	24.4	
		1	14.5	1	8.2	1	26.5	1	30.5	1	28.9	1	29.9	1	31.6	1	3.0	1		
COLUMN TOTAL			7926		8634		34812		8988		10308		21120		9264		6330		107362	
			7.4		8.0		32.4		8.4		9.6		19.7		8.6		5.9		109.0	

NUMBER OF MISSING OBSERVATIONS = 318

Table 14

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

		PROV																	
COUNT	ROW PCT COL PCT	I	IHEAD	NUR ER	WARDMAST RN	91C	LPN	91B 91F 91C			AIDE	WARD CLE RK		RWJ TOTAL					
								31	41	51		61	71		81				
SERVICE																			
	CRITICAL CARE	1	1212	1	1020	1	6948	1	3594	1	1980	1	1942	1	336	1	566	1	17658
			6.9	1	6.1	1	39.3	1	20.4	1	11.2	1	10.4	1	1.9	1	3.8	1	15.5
		1	15.4	1	12.5	1	20.0	1	40.0	1	19.2	1	9.7	1	3.6	1	10.6	1	
MED SURG	2	1806	1	2016	1	7062	1	2586	1	2952	1	6822	1	2730	1	2046	1	28020	
		6.4	1	7.2	1	25.2	1	9.2	1	10.5	1	24.3	1	9.7	1	7.3	1	26.1	
		1	22.9	1	23.4	1	20.3	1	28.8	1	28.6	1	32.3	1	29.5	1	32.4	1	
PSYCHIATRY	3	768	1	1224	1	3078	1		1	102	1	4644	1	1974	1	480	1	12270	
		6.3	1	10.0	1	25.1	1		1	.8	1	37.8	1	16.1	1	3.9	1	11.4	
		1	9.7	1	14.2	1	8.9	1		1	1.0	1	22.0	1	21.3	1	7.6	1	
OB LABOR DELIVER	4	1446	1	1626	1	5736	1	786	1	2250	1	2340	1	834	1	1026	1	16044	
		9.0	1	10.1	1	35.8	1	4.9	1	14.0	1	14.6	1	5.2	1	6.4	1	15.0	
		1	16.3	1	18.9	1	16.5	1	8.7	1	21.8	1	11.1	1	9.0	1	16.3	1	
NON NICL	5	1494	1	1020	1	6264	1	570	1	1248	1	1914	1	1848	1	726	1	15144	
		9.9	1	7.1	1	41.4	1	3.8	1	8.2	1	12.6	1	12.2	1	4.8	1	14.1	
		1	18.5	1	12.5	1	18.0	1	6.3	1	12.1	1	9.1	1	19.9	1	11.5	1	
PEDS PICU	6	1164	1	1590	1	5670	1	1452	1	1776	1	3540	1	1542	1	1368	1	18102	
		6.4	1	8.8	1	31.3	1	8.0	1	9.8	1	19.6	1	8.5	1	7.6	1	15.9	
		1	14.6	1	18.5	1	16.3	1	16.2	1	17.2	1	16.8	1	16.6	1	21.7	1	
COLUMN TOTAL		7890		8616		34758		8988		10308		21102		9264		6312		107238	
		7.4		6.0		32.4		8.4		9.6		19.7		8.6		5.9		100.0	

NUMBER OF MISSING OBSERVATIONS = 462

Table 15

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

COUNT	1	2	3	4	5	6	COLUMN
ROW PCT	1	1	1	1	1	1	TOTAL
COL PCT	1	1	1	1	1	1	TOTAL
INDIRECT	1	1	1	1	1	1	
CARE	1	1	1	1	1	1	
PERSONAL	1	1	1	1	1	1	
OFF UNIT	1	1	1	1	1	1	
COMMUNIC	1	1	1	1	1	1	
MEOS SUP	1	1	1	1	1	1	
CHARTING	1	1	1	1	1	1	
CONFEREN	1	1	1	1	1	1	
TRAVEL	1	1	1	1	1	1	
ADMINIST	1	1	1	1	1	1	
ENVIRON	1	1	1	1	1	1	
MINIWAIT	1	1	1	1	1	1	
TIP	1	1	1	1	1	1	
IE	1	1	1	1	1	1	
ENTAL	1	1	1	1	1	1	
61	1	1	1	1	1	1	
71	1	1	1	1	1	1	
91	1	1	1	1	1	1	
11	1	1	1	1	1	1	
21	1	1	1	1	1	1	
31	1	1	1	1	1	1	
41	1	1	1	1	1	1	
51	1	1	1	1	1	1	
61	1	1	1	1	1	1	
71	1	1	1	1	1	1	
81	1	1	1	1	1	1	
91	1	1	1	1	1	1	
101	1	1	1	1	1	1	
111	1	1	1	1	1	1	
121	1	1	1	1	1	1	
131	1	1	1	1	1	1	
141	1	1	1	1	1	1	
151	1	1	1	1	1	1	
161	1	1	1	1	1	1	
171	1	1	1	1	1	1	
181	1	1	1	1	1	1	
191	1	1	1	1	1	1	
201	1	1	1	1	1	1	
211	1	1	1	1	1	1	
221	1	1	1	1	1	1	
231	1	1	1	1	1	1	
241	1	1	1	1	1	1	
251	1	1	1	1	1	1	
261	1	1	1	1	1	1	
271	1	1	1	1	1	1	
281	1	1	1	1	1	1	
291	1	1	1	1	1	1	
301	1	1	1	1	1	1	
311	1	1	1	1	1	1	
321	1	1	1	1	1	1	
331	1	1	1	1	1	1	
341	1	1	1	1	1	1	
351	1	1	1	1	1	1	
361	1	1	1	1	1	1	
371	1	1	1	1	1	1	
381	1	1	1	1	1	1	
391	1	1	1	1	1	1	
401	1	1	1	1	1	1	
411	1	1	1	1	1	1	
421	1	1	1	1	1	1	
431	1	1	1	1	1	1	
441	1	1	1	1	1	1	
451	1	1	1	1	1	1	
461	1	1	1	1	1	1	
471	1	1	1	1	1	1	
481	1	1	1	1	1	1	
491	1	1	1	1	1	1	
501	1	1	1	1	1	1	
511	1	1	1	1	1	1	
521	1	1	1	1	1	1	
531	1	1	1	1	1	1	
541	1	1	1	1	1	1	
551	1	1	1	1	1	1	
561	1	1	1	1	1	1	
571	1	1	1	1	1	1	
581	1	1	1	1	1	1	
591	1	1	1	1	1	1	
601	1	1	1	1	1	1	
611	1	1	1	1	1	1	
621	1	1	1	1	1	1	
631	1	1	1	1	1	1	
641	1	1	1	1	1	1	
651	1	1	1	1	1	1	
661	1	1	1	1	1	1	
671	1	1	1	1	1	1	
681	1	1	1	1	1	1	
691	1	1	1	1	1	1	
701	1	1	1	1	1	1	
711	1	1	1	1	1	1	
721	1	1	1	1	1	1	
731	1	1	1	1	1	1	
741	1	1	1	1	1	1	
751	1	1	1	1	1	1	
761	1	1	1	1	1	1	
771	1	1	1	1	1	1	
781	1	1	1	1	1	1	
791	1	1	1	1	1	1	
801	1	1	1	1	1	1	
811	1	1	1	1	1	1	
821	1	1	1	1	1	1	
831	1	1	1	1	1	1	
841	1	1	1	1	1	1	
851	1	1	1	1	1	1	
861	1	1	1	1	1	1	
871	1	1	1	1	1	1	
881	1	1	1	1	1	1	
891	1	1	1	1	1	1	
901	1	1	1	1	1	1	
911	1	1	1	1	1	1	
921	1	1	1	1	1	1	
931	1	1	1	1	1	1	
941	1	1	1	1	1	1	
951	1	1	1	1	1	1	
961	1	1	1	1	1	1	
971	1	1	1	1	1	1	
981	1	1	1	1	1	1	
991	1	1	1	1	1	1	
1001	1	1	1	1	1	1	
1011	1	1	1	1	1	1	
1021	1	1	1	1	1	1	
1031	1	1	1	1	1	1	
1041	1	1	1	1	1	1	
1051	1	1	1	1	1	1	
1061	1	1	1	1	1	1	
1071	1	1	1	1	1	1	
1081	1	1	1	1	1	1	
1091	1	1	1	1	1	1	
1101	1	1	1	1	1	1	
1111	1	1	1	1	1	1	
1121	1	1	1	1	1	1	
1131	1	1	1	1	1	1	
1141	1	1	1	1	1	1	
1151	1	1	1	1	1	1	
1161	1	1	1	1	1	1	
1171	1	1	1	1	1	1	
1181	1	1	1	1	1	1	
1191	1	1	1	1	1	1	
1201	1	1	1	1	1	1	
1211	1	1	1	1	1	1	
1221	1	1	1	1	1	1	
1231	1	1	1	1	1	1	
1241	1	1	1	1	1	1	
1251	1	1	1	1	1	1	
1261	1	1	1	1	1	1	
1271	1	1	1	1	1	1	
1281	1	1	1	1	1	1	
1291	1	1	1	1	1	1	
1301	1	1	1	1	1	1	
1311	1	1	1	1	1	1	
1321	1	1	1	1	1	1	
1331	1	1	1	1	1	1	
1341	1	1	1	1	1	1	
1351	1	1	1	1	1	1	
1361	1	1	1	1	1	1	
1371	1	1	1	1	1	1	
1381	1	1	1	1	1	1	
1391	1	1	1	1	1	1	
1401	1	1	1	1	1	1	
1411	1	1	1	1	1	1	
1421	1	1	1	1	1	1	
1431	1	1	1	1	1	1	
1441	1	1	1	1	1	1	
1451	1	1	1	1	1	1	
1461	1	1	1	1	1	1	
1471	1	1	1	1	1	1	
1481	1	1	1	1	1	1	
1491	1	1	1	1	1	1	
1501	1	1	1	1	1	1	
1511	1	1	1	1	1	1	
1521	1	1	1	1	1	1	
1531	1	1	1	1	1	1	
1541	1	1	1	1	1	1	
1551	1	1	1	1	1	1	
1561	1	1	1	1	1	1	
1571	1	1	1	1	1	1	
1581	1	1	1	1	1	1	
1591	1	1	1	1	1	1	
1601	1	1	1	1	1	1	
1611	1	1	1	1	1	1	
1621	1	1	1	1	1	1	
1631	1	1	1	1	1	1	
1641	1	1	1	1	1	1	
1651	1	1	1	1	1	1	
1661	1	1	1	1	1	1	
1671	1	1	1	1	1	1	
1681	1	1	1	1	1	1	
1691	1	1	1	1	1	1	
1701	1	1	1	1	1	1	
1711	1	1	1	1	1	1	
1721	1	1	1	1	1	1	
1731	1	1	1	1	1	1	
1741	1	1	1	1	1	1	
1751	1	1	1	1	1	1	
1761	1	1	1	1	1	1	
1771	1	1	1	1	1	1	
1781	1	1	1	1	1	1	
1791	1	1	1	1	1	1	
1801	1	1	1	1	1	1	
1811	1	1	1	1	1	1	
1821	1	1	1	1	1	1	
1831	1	1	1	1	1	1	
1841	1	1	1	1	1	1	
1851	1	1	1	1	1	1	
1861	1	1	1	1	1	1	
1871	1	1	1	1	1	1	
1881	1	1	1	1	1	1	
1891	1	1	1	1	1	1	
1901	1	1	1	1	1	1	
1911	1	1	1	1	1	1	
1921	1	1	1	1	1	1	
1931	1	1	1	1	1	1	
1941	1	1	1	1	1	1	
1951	1	1	1	1	1	1	
1961	1	1	1	1	1	1	
1971	1	1	1	1	1	1	
1981	1	1	1	1	1	1	
1991	1	1	1	1	1	1	
2001	1	1	1	1	1	1	
2011	1	1	1	1	1	1	
2021	1	1	1	1	1	1	
2031	1	1	1	1	1	1	
2041	1	1	1	1	1	1	

Table 16

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT	SERVICE										ROW TOTAL
		ICRITICAL	MED	SURG	PSYCHIAT	OB	LAROR	NBN	NICU	PEDS	PIC	
		1	11	21	31	41	51	61				
UNAVAILABLE	1	2290	1	4688	1	1724	1	2487	1	2157	1	16164
	1	14.2	1	29.0	1	10.7	1	15.4	1	13.3	1	15.0
	1	13.6	1	16.7	1	13.9	1	15.5	1	14.1	1	15.6
INDIRECT CARE	2	10102	1	17659	1	7280	1	10532	1	8363	1	65038
	1	15.5	1	27.2	1	11.2	1	16.2	1	12.9	1	60.5
	1	57.2	1	62.9	1	58.9	1	65.6	1	54.6	1	61.3
DIRECT CARE	3	5266	1	5721	1	3362	1	3025	1	4798	1	26354
	1	26.0	1	21.7	1	12.8	1	11.5	1	15.2	1	24.5
	1	29.8	1	20.4	1	27.2	1	18.9	1	31.3	1	23.1
COLUMN		17656	28068	12366	16044	15318	18102	107556				
TOTAL		16.4	26.1	11.5	14.9	14.2	15.6	100.0				

NUMBER OF MISSING OBSERVATIONS = 144

Table 17

TIME SPENT IN INDIRECT NURSING CARE STUDY
DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE																
COUNT	I																ROW	
ROW	PCI	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC					U	TOTAL	
COL	PCI	I	CARE															
PERIOD	I	11	21	31	41	51	61											
UNAVAILABLE	1	1649	1	3650	1	1202	1	1926	1	1577	1	2258	1	12462				
	1	13.2	1	30.9	1	9.6	1	15.5	1	12.7	1	18.1	1	17.9				
	1	14.9	1	19.6	1	15.2	1	19.3	1	17.2	1	19.9	1					
INDIRECT CARE	2	6352	1	11978	1	4761	1	6280	1	5185	1	7087	1	41643				
	1	15.3	1	28.8	1	11.4	1	15.1	1	12.5	1	17.0	1	59.9				
	1	57.4	1	61.5	1	60.3	1	62.9	1	56.7	1	59.4	1					
DIRECT CARE	3	3057	1	3648	1	1927	1	1772	1	2382	1	2595	1	15381				
	1	19.9	1	23.7	1	12.5	1	11.5	1	15.5	1	16.9	1	22.1				
	1	27.6	1	18.7	1	24.4	1	17.8	1	26.0	1	21.7	1					
COLUMN	11058	19476	7830	9978	9144	11340	69486											
TOTAL	15.9	28.0	11.4	14.4	13.2	17.2	100.0											

Table 18

TIME SPENT IN INDIRECT NURSING CARE STUDY
EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE															ROW	COL	PCT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	RGH
		COUNT															ROW	COL	PCT	I CARE	II	2I	3I	4I	5I	6I	U	TOTAL		
		PERTOT															I	I	I	I	I	I	I	I	I	I	I	I	I	I
UNAVAILABLE	1	1	502	1	726	1	448	1	509	1	467	1	500	1	500	1	500	1	500	1	500	1	500	1	3152					
		1	15.9	1	23.0	1	14.2	1	16.1	1	14.8	1	15.9	1	15.9	1	15.9	1	15.9	1	15.9	1	15.9	1	12.8					
		1	11.8	1	12.7	1	15.2	1	13.7	1	12.3	1	11.8	1	11.8	1	11.8	1	11.8	1	11.8	1	11.8	1						
INDIRECT CARE	2	1	2360	1	3514	1	1341	1	2413	1	1791	1	2614	1	2614	1	2614	1	2614	1	2614	1	2614	1	14033					
		1	16.8	1	25.0	1	9.6	1	17.2	1	12.8	1	18.6	1	18.6	1	18.6	1	18.6	1	18.6	1	18.6	1	56.9					
		1	55.6	1	61.4	1	45.4	1	65.1	1	47.2	1	61.8	1	61.8	1	61.8	1	61.8	1	61.8	1	61.8	1						
DIRECT CARE	3	1	1386	1	1484	1	1163	1	786	1	1540	1	1116	1	1116	1	1116	1	1116	1	1116	1	1116	1	7475					
		1	18.5	1	19.9	1	15.6	1	10.5	1	20.6	1	14.9	1	14.9	1	14.9	1	14.9	1	14.9	1	14.9	1	30.3					
		1	32.6	1	25.9	1	39.4	1	21.2	1	40.5	1	26.4	1	26.4	1	26.4	1	26.4	1	26.4	1	26.4	1						
COLUMN		4248		5724		2952		3708		3798		4230		4230		4230		4230		4230		4230		24660						
TOTAL		17.2		23.2		12.0		15.0		15.4		17.2		17.2		17.2		17.2		17.2		17.2		100.0						

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

TIME SPENT IN INDIRECT NURSING CARE STUDY
NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE													ROW TOTAL
COUNT		ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC		
ROW	PCT	PCT	CARE			RY	DELIVER						
COL	PCT												
1	1	11	21	31	41	51	61						
PERIOD													
UNAVAILABLE													
1	1	139	1	112	1	74	1	52	1	113	1	60	
	1	25.3	1	20.4	1	13.5	1	9.5	1	20.5	1	10.9	
	1	5.9	1	3.9	1	4.9	1	2.2	1	4.8	1	3.1	
INDIRECT CARE													
2	1	1390	1	2167	1	1178	1	1839	1	1387	1	1401	
	1	14.8	1	23.1	1	12.6	1	19.6	1	14.8	1	15.0	
	1	59.1	1	75.6	1	77.3	1	78.0	1	58.4	1	72.5	
DIRECT CARE													
3	1	823	1	589	1	272	1	467	1	876	1	471	
	1	23.5	1	16.8	1	7.8	1	13.4	1	25.0	1	13.5	
	1	35.0	1	20.5	1	17.8	1	19.8	1	36.9	1	24.4	
TOTAL													
COLUMN		2352		2668		1524		2358		2376		1932	
TOTAL		17.5		21.4		11.4		17.6		17.7		14.4	
												100.0	

NUMBER OF MISSING OBSERVATIONS = 144

Table 20

TIME SPENT IN INDIRECT NURSING CARE STUDY

PERCENTAGES OF TIME SPENT IN INDIRECT CARE ACROSS ALL MTFs

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
COMMUNICATIVE	2	10606	9.8	16.3	16.3
MEDS SUPPLIES EQUIP	3	5435	5.0	8.3	24.6
CHARTING CLERICAL	4	11853	11.0	18.2	42.8
CONFERENCES	5	4223	3.9	6.5	49.3
TRAVEL TRANSPORT	6	11532	10.7	17.7	67.0
ADMINISTRATION	7	10054	9.3	15.4	82.4
ENVIRONMENTAL	8	2097	1.9	3.2	85.7
WAIT TIME	9	9336	8.7	14.3	100.0
OUT OF RANGE		42564	39.5	MISSING	
		-----	-----	-----	
	TOTAL	107700	100.0	100.0	
VALID CASES	65136				
		MISSING CASES	42564		

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY DATA COLLECTION SITE

40

Table 22

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

COUNT			PROV															ROW TOTAL			
ROW	PCT	I	HEAD	NUR	WARDMAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	ROW							
COL	PCT	ISE	1I	1I	2I	3I	4I	5I	6I	7I	8I	9I	10I	11I							
ACT																					
COMMUNICATIVE			2	1	1409	1	795	1	4282	1	600	1	857	1	1235	1	570	1	838	1	10586
			1	13.3	1	7.5	1	40.4	1	5.7	1	9.1	1	11.7	1	5.4	1	7.9	1	16.3	
			1	26.0	1	13.5	1	19.8	1	12.9	1	14.2	1	10.9	1	10.8	1	17.6	1		
MEDS SUPPLIES EQ			3	1	253	1	464	1	2282	1	633	1	588	1	792	1	375	1	45	1	5432
			1	4.7	1	8.5	1	42.0	1	11.7	1	10.8	1	14.6	1	6.9	1	.8	1	8.4	
			1	4.7	1	7.9	1	10.6	1	13.6	1	9.8	1	7.0	1	7.1	1	.9	1		
CHARTING CLERICA			4	1	829	1	205	1	5380	1	701	1	915	1	1365	1	781	1	1601	1	11797
			1	7.0	1	1.7	1	45.6	1	5.9	1	7.8	1	11.7	1	6.6	1	13.6	1	18.1	
			1	15.3	1	3.5	1	24.9	1	15.0	1	15.2	1	12.2	1	14.5	1	33.7	1		
CONFERENCES			5	1	562	1	256	1	1678	1	240	1	272	1	848	1	345	1	14	1	4215
			1	13.3	1	6.1	1	39.8	1	5.7	1	6.5	1	20.1	1	8.2	1	.3	1	6.5	
			1	10.4	1	4.4	1	7.8	1	5.1	1	4.5	1	7.5	1	6.5	1	.3	1		
TRAVEL TRANSPORT			6	1	471	1	1000	1	2796	1	1093	1	1291	1	2940	1	1327	1	596	1	11514
			1	4.1	1	8.7	1	24.3	1	9.5	1	11.2	1	25.5	1	11.5	1	5.2	1	17.7	
			1	8.7	1	17.0	1	12.9	1	23.4	1	21.4	1	25.8	1	25.1	1	12.5	1		
ADMINISTRATION			7	1	1725	1	2734	1	2218	1	399	1	370	1	918	1	284	1	1404	1	10052
			1	17.2	1	27.2	1	22.1	1	4.0	1	3.7	1	9.1	1	2.8	1	14.0	1	15.5	
			1	31.8	1	46.5	1	10.3	1	8.6	1	6.1	1	8.1	1	5.4	1	29.5	1		
ENVIRONMENTAL			8	1	25	1	129	1	273	1	248	1	387	1	626	1	390	1	17	1	2095
			1	1.2	1	6.2	1	13.0	1	11.8	1	18.5	1	29.9	1	18.6	1	.8	1	3.2	
			1	.5	1	2.2	1	1.3	1	5.3	1	6.4	1	5.5	1	7.4	1	.4	1		
WAIT TIME			9	1	147	1	297	1	2694	1	750	1	1342	1	2637	1	1221	1	238	1	9326
			1	1.6	1	3.2	1	28.9	1	8.0	1	14.4	1	28.3	1	13.1	1	2.6	1	14.3	
			1	2.7	1	5.1	1	12.5	1	16.1	1	22.3	1	23.2	1	23.1	1	5.0	1		
COLUMN TOTAL				5421	5880	21603	4664	6022	11381	5293	4753	65017									
				8.3	9.0	33.2	7.2	9.3	17.5	8.1	7.3	100.0									

Table 23

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

ACT	ROW COL	PCT PCT	ICRITICAL I CARE	MED	SURG	PSYCHIAT RY	OB DELIVER	LABOR	NBN	NICU	PEDS U	PIC	ROW TOTAL
			11	21	31	41	51	61					
COMMUNICATIVE	2	1	1748	1	2746	1	1097	1	1709	1	1430	1	10603
		1	16.5	1	25.9	1	10.3	1	16.1	1	13.5	1	17.7
		1	17.3	1	15.6	1	15.1	1	16.2	1	17.1	1	16.3
MEDS SUPPLIES EQ	3	1	959	1	1683	1	160	1	946	1	909	1	5429
		1	17.7	1	31.0	1	2.9	1	17.4	1	16.7	1	8.3
		1	9.5	1	9.5	1	2.2	1	9.0	1	10.9	1	7.0
CHARTING CLERICA	4	1	2002	1	3652	1	943	1	1802	1	1531	1	11846
		1	16.9	1	30.8	1	8.0	1	15.2	1	12.9	1	16.2
		1	19.8	1	20.7	1	13.0	1	17.1	1	18.3	1	17.3
CONFERENCES	5	1	627	1	1110	1	1073	1	428	1	416	1	4220
		1	14.9	1	26.3	1	25.4	1	10.1	1	9.9	1	13.4
		1	6.2	1	6.3	1	14.7	1	4.1	1	5.0	1	5.1
TRAVEL TRANSPORT	6	1	1558	1	3624	1	1317	1	1631	1	1390	1	11521
		1	13.5	1	31.5	1	11.4	1	14.2	1	12.1	1	17.4
		1	15.4	1	20.5	1	18.1	1	15.5	1	16.6	1	18.0
ADMINISTRATION	7	1	1527	1	2325	1	1321	1	1783	1	1361	1	10019
		1	15.2	1	23.2	1	13.2	1	17.8	1	13.6	1	17.0
		1	15.1	1	13.2	1	18.1	1	16.9	1	16.3	1	15.3
ENVIRONMENTAL	8	1	217	1	620	1	108	1	498	1	303	1	2094
		1	10.4	1	29.6	1	5.2	1	23.8	1	14.5	1	16.6
		1	2.1	1	3.5	1	1.5	1	4.7	1	3.6	1	3.1
WAIT TIME	9	1	1464	1	1899	1	1261	1	1735	1	1023	1	9306
		1	15.7	1	20.4	1	13.6	1	18.6	1	11.0	1	20.7
		1	14.5	1	10.8	1	17.3	1	16.5	1	12.2	1	17.3
COLUMN TOTAL			10102		17659		7280		10532		6363		65038
			15.5		27.2		11.2		16.2		12.9		17.1
													100.0

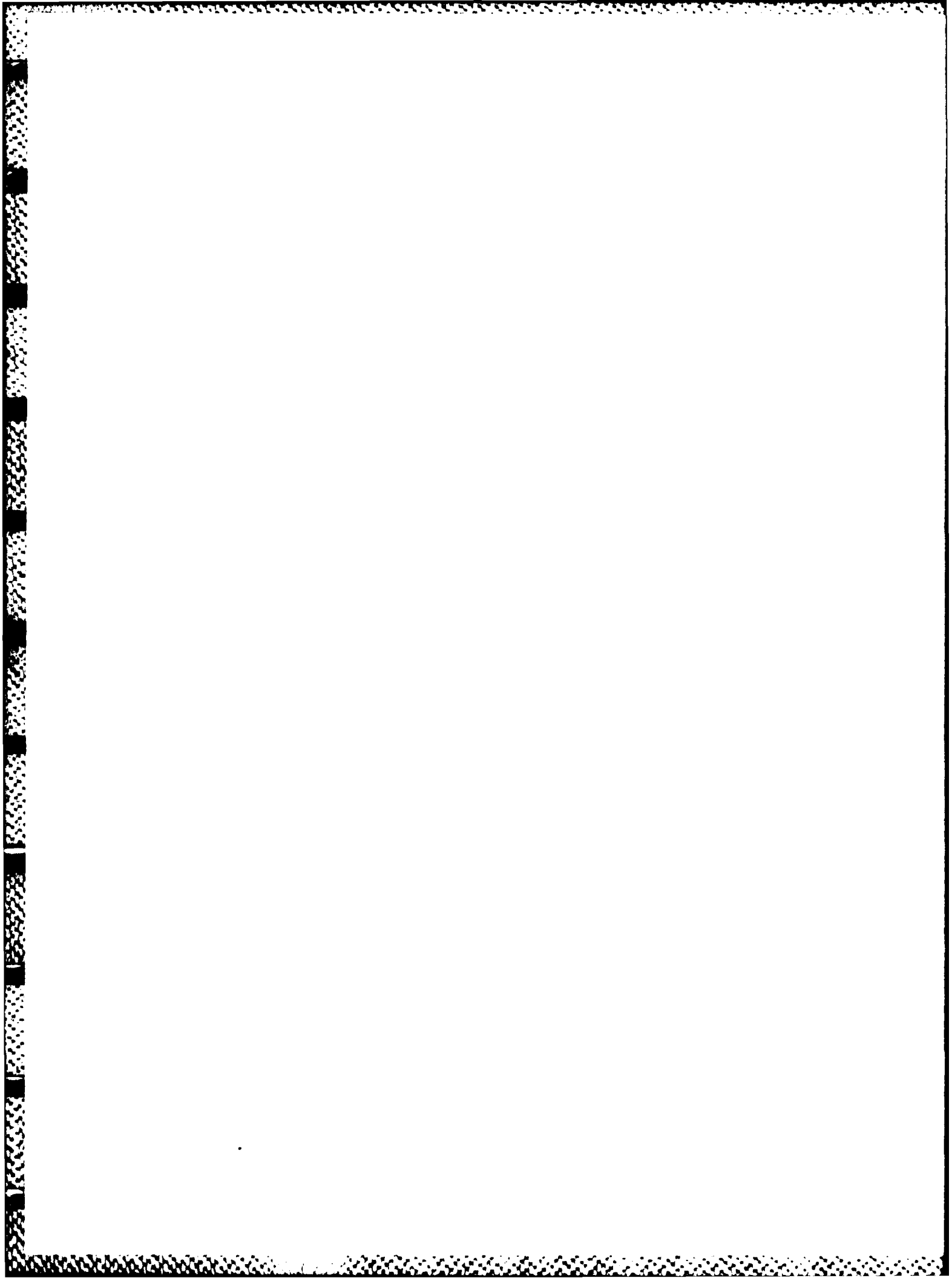
TABLE 24

PERCENTAGE AND NUMBER OF TOTAL ADTS FOR EACH MTF BY ALL SHIFTS *

MTF	DAYS	EVENINGS	NIGHTS
BROOKE AMC	54.3 (n=38)	25.7 (n=18)	20.0 (n=14)
FT HOOD	51.7 (n=31)	30.0 (n=18)	18.3 (n=11)
FT LEONARD WOOD	50.0 (n=30)	28.3 (n=17)	21.7 (n=13)
FT CAMPBELL	50.0 (n=30)	30.0 (n=18)	20.0 (n=12)
FITZSIMONS AMC	50.0 (n=40)	30.0 (n=24)	20.0 (n=16)
FT BELVOIR	50.0 (n=25)	30.0 (n=15)	20.0 (n=10)
FT CARSON	50.0 (n=25)	30.0 (n=15)	20.0 (n=10)
FT DEVENS	50.0 (n=05)	30.0 (n=03)	20.0 (n=02)
FT LEE	50.0 (n=10)	30.0 (n=06)	20.0 (n=04)
MEAN % ADTS Per Shift	50.9	29.1	20.0

* ADTS range per shift (days= 0-21; evenings = 0-7; and nights = 0-8)

APPENDICES





APPENDIX 1
DEPARTMENT OF THE ARMY
US ARMY HEALTH CARE STUDIES AND CLINICAL INVESTIGATION ACTIVITY
FORT SAM HOUSTON, TEXAS 78234

HSNN-Z

2 February 1983

SUBJECT: Indirect Nursing Care Time Requirements

1. The Army Nurse Corps has long been convinced that patient census alone is an inadequate basis for establishing nursing manpower and staffing requirements. During FY 81, an Army study was completed which provided a valid and reliable methodology for the quantification of inpatients' direct nursing care needs; however, this provides only one portion of the formula needed for the determination of nursing manpower.
2. Pursuant to The Surgeon General's FY 83 Army Medical Department Study Program, under AR 5-5, the aforementioned study is to be continued with the gathering of data necessary to quantify the percentage of time spent in indirect nursing care activities. In order to assure the validity of these data, it will be necessary to study Medical Treatment Facilities (MTFs) of various sizes. Because of the size and configuration of your MTF, it has been recommended by HQ, HSC as one of the sites for data collection.
3. The proponent agency for this study is Health Care Studies and Clinical Investigation Activity (HCSCIA). Colonel Marian Walls, ANC (HQ, HSC), is the Study Director. LTC Terry R. Misener, ANC (HCSCIA) is the Principal Investigator.
4. It is planned that training for the conduct of the study (data collection) be provided at each installation by the Principal Investigator's staff. Also, it is envisioned that the Department of Nursing at each selected MEDDAC/MEDCEN provide data collectors from within its staff. These details have been discussed with your Chief Nurse, who has expressed an interest in supporting this effort. Definite timetables for the study are pending; however, training and data collection would not commence before 28 February 1983. The exact dates that our representatives could be at your facility can be coordinated with your staff.

HSNN-Z

2 February 1983

SUBJECT: Indirect Nursing Care Time Requirements

5. We would appreciate receiving your cooperation and command support for this high-priority study. A timely response granting willingness to participate would be appreciated so that study plans can be formalized.

DAVID G. BRUNNER
Colonel, Dental Corps
Commanding

List of addressees for Indirect Nursing Care Time Requirements

Commander
Colonel Florence A. Blanchfield Army Community Hospital
Ft Campbell, KY 42223

Commander
US Army Hospital
Ft Carson, CO 80913

Commander
US Dewitt Army Hospital
Ft Belvoir, VA 22060

Commander
Brooke Army Medical Center
Ft Sam Houston, TX 78234

Commander
US General Leonard Wood Army Hospital
Ft Leonard Wood, MO 65473

Commander
US Kenner Army Hospital
Ft Lee, VA 23801

Commander
US Darnell Army Hospital
Ft Hood, TX 76544

Commander
US Cutter Army Hospital
Ft Devens, MA 01433

Commander
Fitzsimons Army Medical Center
Aurora, CO 80045

APPENDIX 2

DATA COLLECTION SCHEDULE

DATES	Day 1 2 Mar WED	Day 2 3 Mar THU	Day 3 4 Mar FRI	Day 4 5 Mar SAT	Day 5 6 Mar SUN	Day 6 7 Mar MON	Day 7 8 Mar TUE	Day 8 9 Mar WED	Day 9 10 Mar THU	Day 10 11 Mar FRI	Day 11 12 Mar SAT	Day 12 13 Mar SUN	Day 13 14 Mar MON	Day 14 15 Mar TUE
DAYS	MALE SURG 43C	OB	ICU 13A	OB			OB	OB	MED 15B	MED 15B	MICU/ CCU 43E			OB
DAYS	PED & PICU	PED & PICU	PED & PICU			PED & PICU	NBN	NBN	PED & PICU	NBN			FEMALE SURG 43D	MICU/ CCU 43E
DAYS	PSY	NBN			ICU 13A	NBN	PSY	PSY	MICU/ CCU 43E			MALE SURG 43C	PSY	PSY
EVENINGS	MALE SURG 13B	OB/ L&D	PED & PICU	ICU 42A			OB/ L&D	OB/ L&D	NBN	MALE MED 43H	PED & PICU			PED & PICU
EVENINGS/ NIGHTS	Evenings PSY Nights	PSY			ICU 13A	NBN	PSY					MED 15B	ICU 42A	NBN
NIGHTS			PED & PICU	ICU 42A	PED & PICU	ICU 13A	PSY		13B Male Surg	OB/ L&D	NBN	NBN	FEMALE SURG 43D	OB/ L&D

APPENDIX 3

DATA COLLECTION SCHEDULE

DATES	Day 1 5 Mar SAT	Day 2 6 Mar SUN	Day 3 7 Mar MON	Day 4 8 Mar TUE	Day 5 9 Mar WED	Day 6 10 Mar THU	Day 7 11 Mar FRI	Day 8 12 Mar SAT	Day 9 13 Mar SUN	Day 10 14 Mar MON	Day 11 15 Mar TUE	Day 12 16 Mar WED	Day 13 17 Mar THU	Day 14 18 Mar FRI
DAYS	NBN			CCU	MALE SURG 5 E	L & D	CCU	ROUTINE POST PARTUM 3 E			NBN	CCU	MALE & FEMALE SURG 4 E	MALE SURG 5 E
DAYS			MALE SURG 5 E	ROUTINE POST PARTUM 3 E	PED	PED	PED			L & D	PED	ROUTINE POST PARTUM 3 E	PED	NBN
DAYS		FEMALE SURG 3 S	PSY	PSY	PSY	NBN			ICU	NBN	PSY	PSY	CCU	
EVENINGS	FEMALE SURG 3 S			PED	MALE & FEMALE SURG 4 E	COMPLIC. POST PARTUM 2 E	L & D	CCU			COMPLIC. POST PARTUM 2 E	PED	PED	MALE SURG 5 E
EVENINGS/ NIGHTS	Evenings Nights	PSY	CCU		PSY	NBN	NBN		CCU	NBN	PSY			
NIGHTS	PSY	NBN	MALE SURG 5 E	L & D			ICU	COMPLIC. POST PARTUM 2 E	PED	CCU	NBN		MALE SURG 5E	MALE SURG 5 E

APPENDIX 4

DATA COLLECTION SCHEDULE

DATES	Day 1 20 Mar SUN	Day 2 21 Mar MON	Day 3 22 Mar TUE	Day 4 23 Mar WED	Day 5 24 Mar THU	Day 6 25 Mar FRI	Day 7 26 Mar SAT	Day 8 27 Mar SUN	Day 9 28 Mar MON	Day 10 29 Mar TUE	Day 11 30 Mar WED	Day 12 31 Mar THU	Day 13 1 Apr FRI	Day 14 2 Apr SAT
DAYS			OB/ L&D	MED 2 W	OB/ L&D	MICU	OB/ L&D			SICU	OB/ L&D	MED 2W	FEMALE ORTHO 4 W	MALE ORTHO 5 E
DAYS		MED 2 W	PSY	PSY	PED	PED			OB/ L&D	PSY	PSY	PSY	NBN/ NICU	
DAYS	SICU	NBN/ NICU	CCU	PED	NBN/ NICU			NBN/ NICU	PED	NBN/ NICU	MICU	PED		
EVENINGS	MICU	NBN/ NICU	PSY	SICU	NBN/ NICU			MALE ORTHO 5 E	MICU	PSY	PSY	NBN/ NICU		
EVENINGS/ NIGHTS	Evenings		OB/L&D	MED 2 E	PED	SURG 3W	PED			PED	OB/L&D	OB/L&D		
NIGHTS	Nights												OB/L&D	NBN/NICU
NIGHTS	NBN/ NICU	MED 2 E	OB/ L&D	SICU	CCU			PED	PED	PSY	PSY	MED 2 E		

FITZSIMONS ARMY MEDICAL CENTER

APPENDIX 5

DATA COLLECTION SCHEDULE

DATES	Day 1 23 Mar WED	Day 2 24 Mar THU	Day 3 25 Mar FRI	Day 4 26 Mar SAT	Day 5 27 Mar SUN	Day 6 28 Mar MON	Day 7 29 Mar TUE	Day 8 30 Mar WED	Day 9 31 Mar THU	Day 10 1 Apr FRI	Day 11 2 Apr SAT	Day 12 3 Apr SUN	Day 13 4 Apr MON	Day 14 5 Apr TUE
DAYS	FEMALE SURG 4 B	OB	ICU	OB			OB	OB	MED 5 B	MALE SURG 4 A	ICU			OB
DAYS	PED	PED			PED	ICU	MALE SURG 4 A	MALE SURG 4 A	PED			NBN	ICU	NBN
DAYS/ EVENINGS	Days NBN Evenings	ICU	PED	NEO	NEO									
EVENINGS	MALE SURG 4 A	OB			ICU	NBN	PED	OB	ICU			PED	NBN	OB
NIGHTS		ICU	PED	OB	PED	ICU			MED 5 B	OB	NBN	NBN	MALE SURG 4 A	

APPENDIX 6

DATA COLLECTION SCHEDULE

DATES	Day 1 21 Mar MON	Day 2 22 Mar TUE	Day 3 23 Mar WED	Day 4 24 Mar THU	Day 5 25 Mar FRI	Day 6 26 Mar SAT	Day 7 27 Mar SUN	Day 8 28 Mar MON	Day 9 29 Mar TUE	Day 10 30 Mar WED	Day 11 31 Mar THU	Day 12 1 Apr FRI	Day 13 2 Apr SAT	Day 14 3 Apr SUN
DAYS		OB/ L & D	GEN SURG 6 B	OB/ L & D	CCU	OB/ L&D			OB/ L&D	OB/ L&D	ARD	GEN SURG 6 B	CCU	
DAYS	GEN SURG 6 B	CCU	PED	PED	PED			PED	ORTHO 6 C	NBN	PED	NBN		
DAYS	PSY	PSY	PSY	NBN			CCU	NBN	NBN	PSY	CCU			PSY
EVENINGS		PED	GEN SURG 6 B	OB/ L&D	NBN	CCU			OB/ L&D	OB/ L&D	PED	MED 5 C	PED	
EVENINGS/ NIGHTS	Evenings CCU Nights	PSY	PSY	PSY			CCU	NBN	NBN					MED 5 C
NIGHTS	ARD	OB			PED	NBN	PED	CCU	CCU			OB	PSY	NBN

GENERAL LEONARD WOOD ARMY COMMUNITY HOSPITAL
FORT LEONARD WOOD, MISSOURI

APPENDIX 7

DATA COLLECTION SCHEDULE

DATES	Day 1 27 Mar SUN	Day 2 28 Mar MON	Day 3 29 Mar TUE	Day 4 30 Mar WED	Day 5 31 Mar THU	Day 6 1 Apr FRI	Day 7 2 Apr SAT	Day 8 3 Apr SUN	Day 9 4 Apr MON	Day 10 5 Apr TUE	Day 11 6 Apr WED	Day 12 7 Apr THU	Day 13 8 Apr FRI	Day 14 9 Apr SAT
DAYS				PED	PED					ICU	PSY	ICU	ICU	PSY
DAYS		SURG 4 AA	PSY	ORTHO 4 AB	OB/ NBN	OB/ NBN			OB/ NBN	OB/ NBN	OB/ NBN	SURG 4 AA	MED 3 AC	
DAYS	MED 3 AC	ICU	OB/ NBN	OB/ NBN	PED				PED	PED	ICU	PED	PSY	
EVENINGS			PSY	PED	OB/ NBN	ORTHO 4 AB	OB/ NBN			OB/ NBN	MED 3 AC	ICU	PED	PED
EVENINGS	MED 3 AC	PSY	ICU	PSY	ICU									
NIGHTS		SURG 4 AA	OB/ NBN			PED	ICU	PED	ICU		PSY	PSY	OB/ NBN	ORTHO 4 AB

APPENDIX 8

DATA COLLECTION SCHEDULE

DATES	Day 1 27 Mar SUN	Day 2 28 Mar MON	Day 3 29 Mar TUE	Day 4 30 Mar WED	Day 5 31 Mar THU	Day 6 1 Apr FRI	Day 7 2 Apr SAT	Day 8 3 Apr SUN	Day 9 4 Apr MON	Day 10 5 Apr TUE	Day 11 6 Apr WED	Day 12 7 Apr THU	Day 13 8 Apr FRI	Day 14 9 Apr SAT
DAYS			PED	ORTHO	PED	PED	OB L&D PP			PED	PED	ORTHO	MALE M/S	RR/ICU
DAYS		ORTHO	NBN	NBN	NBN	M/CCU			RR/ICU	NBN	OB L&D PP	NBN	OB L&D PP	
DAYS/ EVENINGS	FEMALE M/S Evenings	OB/L&D PP	RR/ICU	M/CCU	OB/L&D PP			OB/L&D PP *	FEMALE M/S	OB/L&D PP	MALE SURG	OB/L&D PP		
EVENINGS	MALE SURG	RR/ICU	PED			NBN	M/CCU	RR/ICU	NBN	NBN			PED	PED
NIGHTS	NBN	MALE SURG	OB L&D PP	PED	RR/ICU			PED	RR/ICU	NBN	OB L&D PP	FEMALE M/S		

* Snow day, collected on 10 Apr (Sun)

US ARMY MEDICAL ACTIVITY
FORT CARSON, COLORADO

APPENDIX 9

DATA COLLECTION SCHEDULE

DATES	Day 1 27 Mar SUN	Day 2 28 Mar MON	Day 3 29 Mar TUE	Day 4 30 Mar WED	Day 5 31 Mar THU	Day 6 1 Apr FRI	Day 7 2 Apr SAT	Day 8 3 Apr SUN	Day 9 4 Apr MON	Day 10 5 Apr TUE	Day 11 6 Apr WED	Day 12 7 Apr THU	Day 13 8 Apr FRI	Day 14 9 Apr SAT
DAYS	SURG	SURG		MED								SURG	MED	
EVENINGS						SURG					SURG			SURG
NIGHTS					MED				SURG					

US ARMY MEDICAL ACTIVITY
FORT DEVENS, MASSACHUSETTS

APPENDIX 10

DATA COLLECTION SCHEDULE

DATES	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
	6 Apr WED	7 Apr THU	8 Apr FRI	9 Apr SAT	10 Apr SUN	11 Apr MON	12 Apr TUE	13 Apr WED	14 Apr THU	15 Apr FRI	16 Apr SAT	17 Apr SUN	18 Apr MON	19 Apr TUE
DAYS	MALE FEMALE M/S	ICU	ICU	ICU			ICU	ICU	MALE SURG	MALE SURG	MALE FEMALE M/S			MALE SURG
EVENINGS			MALE SURG	ICU	ICU					MALE FEMALE M/S	ICU	MALE FEMALE M/S		
NIGHTS		ICU				ICU			MALE SURG				MALE FEMALE M/S	

KENNER US ARMY COMMUNITY HOSPITAL

FORT LEE, VIRGINIA

APPENDIX 11A

TIME SPENT IN INDIRECT NURSING CARE STUDY

WORK SAMPLING DATA - WARD PERSONNEL

DATE: Day MO YR DAY OF WEEK: 7
 1,2 3,4 5,6 (1-Sunday)

SHIFT: (1=Day, 2=Even., 3=Night) 13

MTF CODE: 8 UNIT CODE: 9-12

TYPE OF WARD:
 Observer:

HOUR OBSERVED 14-17

PROVIDER CODE (1=Head Nurse, 2=Wardmaster, 3-RN, 4=91C, 5-LPN, 6-91B, 7-Aide/NA, 8-Ward Clerk, 9-Student, 0=Volunteer)

PROVIDER	DIRECT CARE	UNAVAILABLE PERSONAL ACTV. (0)	UNAVAILABLE OFF INIT ACTV. (1)	COMMUNICATIVE ACTS (2)	PREPARATION MEDS, SUPPL & EQUIP (3)	CLERICAL/ CHARTING (4)	CONFERENCES (5)	TRAVEL/ TRANSPORTATION (6)	ADMINISTRATION (7)	ENVIRON- MENTAL CONTROLS (8)	WAIT TIME (9)	ACTIVITY CODES
11												19-21
18												22-24
25												26-28
32												29-31
39												33-35
46												36-38
53												40-42
60												43-45
67												47-49
74												50-52
81												54-56
												57-59
												61-63
												64-66
												68-70
												71-73
												75-77
												78-80
												82-84
												85-87

APPENDIX 11B

INSTRUCTIONS: "WORK SAMPLING DATA - WARD PERSONNEL" FORM

This is the form that will be used to collect all data for the Indirect Nursing Care Study in which you are participating. You will be asked to complete ONE FORM for EACH HOUR of observation. In order for this study to be valid these forms must be completed precisely. Please follow the instructions carefully:

DATE: in box 1,2 place the Day of the Month (i.e., 05, 14)
in box 3,4 the Month (i.e., Feb = 02, Mar = 03, etc.)
in box 5,6 the Year which is "83"

DAY OF WEEK: in box 7 place the code for the day of the week (1=Sunday, 2=Monday, 3=Tuesday, 4=Wednesday, 5=Thursday, 6=Friday, 7=Saturday)

MTF CODE: As provided in Training Session

UNIT CODE: As provided in Training Session

CENTER BOX: Type of Ward - write "Med/Surg" or "OB" or "L & D" etc.
Observer: write your name

SHIFT: in box 13 write the code for the Shift (1=Day, 2=Evening, 3=Night)

HOOR OBSERVED: in boxes 14-17 place the hour the observation began (example: 0800 to 0900 observed = "0800")

The remainder of the form is for actual data collection. In the "Provider" column list each care provider present for duty for the shift. Indicate the provider code in boxes 18, 25, 32, etc. for each provider observed during that hour as follows:

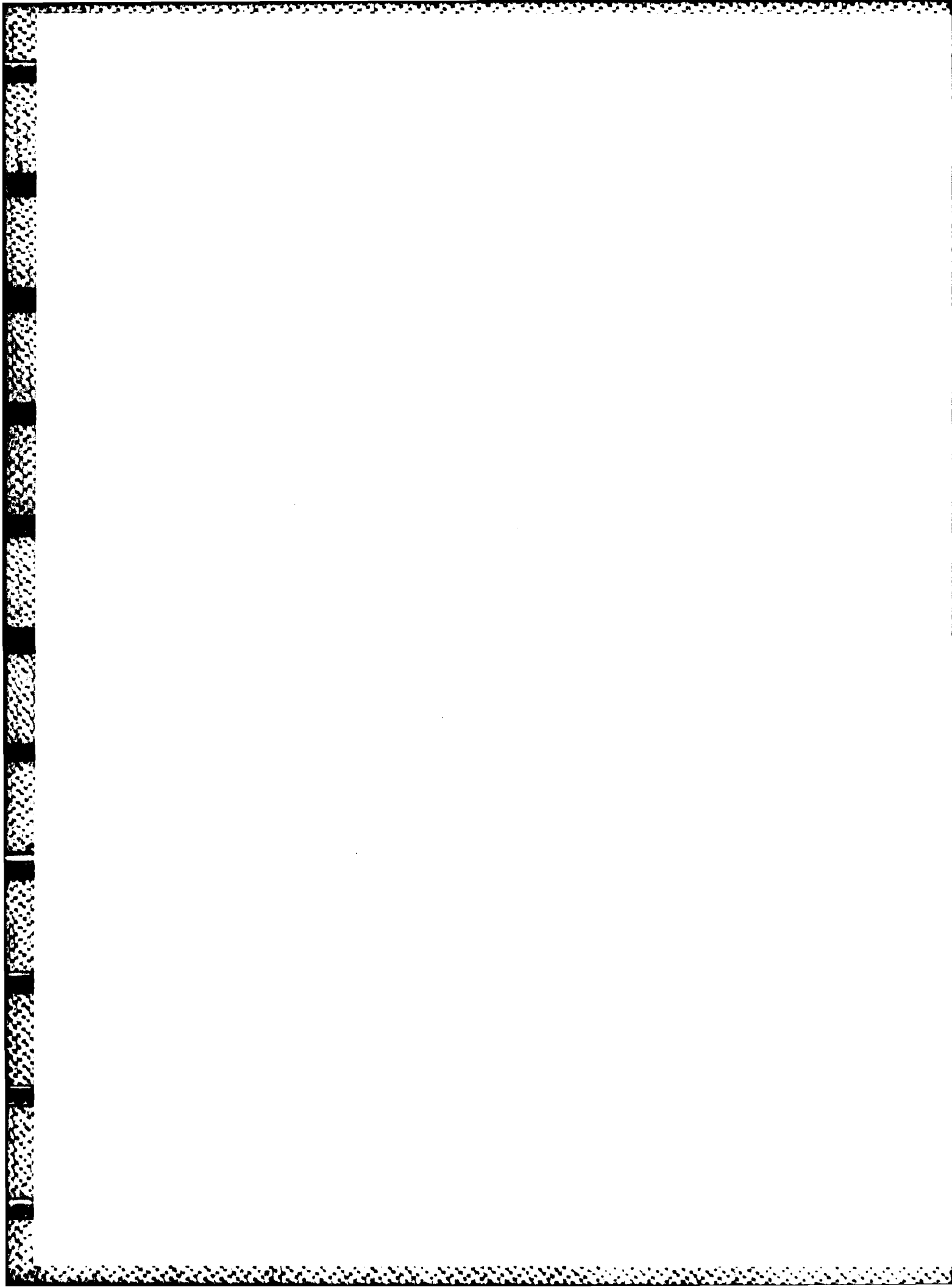
1 = Head Nurse	4 = 91C	7 = Aide/NA	0 = Volunteer
2 = Wardmaster	5 = LPN	8 = Ward Clerk	
3 = RN	6 = 91B	9 = Student	

(Example: If the first person listed and observed is the 91C, place a code 4 in block above number 18 and "91C" in blank space under "PROVIDER" heading.)

Across the form are listed 11 different activity categories broken down into six 10-minute sections. As you make each of the six observations for that hour place a check mark in the appropriate activity column.

(Example: At 20 past the hour the observation is of the 91C talking to the RN about a patient. Place a mark on the provider line marked 91C in the COMMUNICATIVE ACTS column under "20" minutes.)

ACTIVITY CODES: LEAVE BLANK



APPENDIX 12

UNIT STAFFING/CARE EVALUATION QUESTIONNAIRE																																												
Charge Nurse: Please complete at or toward the end of each shift.																																												
Hospital: _____		STAFF ON SHIFT <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 20%;">PERSONNEL</th> <th style="width: 15%;">NUMBER FULLTIME</th> <th style="width: 15%;">NUMBER PARTTIME</th> <th style="width: 15%;">NUMBER MISSING</th> <th style="width: 15%;">TOTAL HOURS</th> </tr> </thead> <tbody> <tr><td>RN/CN</td><td></td><td></td><td></td><td></td></tr> <tr><td>RN's</td><td></td><td></td><td></td><td></td></tr> <tr><td>LPN's</td><td></td><td></td><td></td><td></td></tr> <tr><td>Aides</td><td></td><td></td><td></td><td></td></tr> <tr><td>Students</td><td></td><td></td><td></td><td></td></tr> <tr><td>Ward Clerk</td><td></td><td></td><td></td><td></td></tr> <tr><td>TOTALS</td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">* Number of personnel on schedule but not available for patient care for the <u>entire shift</u> (include sick/qtrs, Continuing Education, TDY, Admin absence, Comp-time, CQ, etc.; <u>DO NOT</u> include Leave, Days off, etc.)</p>			PERSONNEL	NUMBER FULLTIME	NUMBER PARTTIME	NUMBER MISSING	TOTAL HOURS	RN/CN					RN's					LPN's					Aides					Students					Ward Clerk					TOTALS				
PERSONNEL	NUMBER FULLTIME				NUMBER PARTTIME	NUMBER MISSING	TOTAL HOURS																																					
RN/CN																																												
RN's																																												
LPN's																																												
Aides																																												
Students																																												
Ward Clerk																																												
TOTALS																																												
Type of Unit: _____																																												
Unit: _____																																												
Day of Study: _____																																												
Shift: D E N																																												
Date: / / Month Day Year																																												
Person completing form: _____																																												
Total Patients in Each Class at Beginning of Shift: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 25%; text-align: center;">I</td> <td style="width: 25%; text-align: center;">II</td> <td style="width: 25%; text-align: center;">III</td> <td style="width: 25%; text-align: center;">IV</td> </tr> <tr> <td style="border-bottom: 1px solid black; height: 20px;"></td> <td style="border-bottom: 1px solid black; height: 20px;"></td> <td style="border-bottom: 1px solid black; height: 20px;"></td> <td style="border-bottom: 1px solid black; height: 20px;"></td> </tr> </table>					I	II	III	IV																																				
I	II	III	IV																																									
Admissions _____ Discharges _____ during shift.																																												
1. In general, did you feel that staffing for this shift was: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="text-align: center;">More than adequate</td> <td style="text-align: center;">Comfortable</td> <td style="text-align: center;">Adequate</td> <td style="text-align: center;">Barely adequate</td> <td style="text-align: center;">Inadequate</td> </tr> <tr> <td style="text-align: center;">5 ()</td> <td style="text-align: center;">4 ()</td> <td style="text-align: center;">3 ()</td> <td style="text-align: center;">2 ()</td> <td style="text-align: center;">1 ()</td> </tr> </table>					More than adequate	Comfortable	Adequate	Barely adequate	Inadequate	5 ()	4 ()	3 ()	2 ()	1 ()																														
More than adequate	Comfortable	Adequate	Barely adequate	Inadequate																																								
5 ()	4 ()	3 ()	2 ()	1 ()																																								
2. If barely adequate or inadequate, which one(s) of the following factors seemed to best describe the situation? (Check the one(s) that apply.) <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 80%;"> <p>2.1 Above average number of patients needing extensive nursing care, assistance, or surveillance.</p> <p>2.2 Not enough staff on duty: e.g., too few scheduled; scheduled but not on duty, or transferred to another unit.</p> <p>2.3 Census fluctuations: e.g., above average number of admissions this shift or previous shift, or above average number of discharges or transfers.</p> <p>2.4 Not an optimum mix of personnel skill levels.</p> <p>2.5 Above average number of patients needing escort by nursing or other departments.</p> <p>2.6 Other (please describe) _____</p> </div> <div style="width: 15%; text-align: right;"> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> </div> </div> </div>																																												
(over)																																												

APPENDIX 12 (continued)

3. In your judgement, if staffing was barely adequate or inadequate, what would have best helped the situation? (Check the one(s) that apply.)

- | | |
|---|---|
| 3.1 Additional Aide all shift _____ | 3.7 Additional RN all shift _____ |
| 3.2 Two additional Aides all shift. _____ | 3.8 Two additional RN's all shift _____ |
| 3.3 Additional Aide part of shift _____ | 3.9 Additional RN part of shift _____ |
| 3.4 Additional LPN all shift _____ | 3.11 WC all shift _____ |
| 3.5 Two additional LPN's all shift _____ | 3.12 Additional WC part of shift _____ |
| 3.6 Additional LPN part of shift _____ | 3.13 Other (please describe) _____ |

4. Please judge the following aspects of care according to your best knowledge of nursing services given to at least 90% of the patients during this shift. Consider factors such as safety, accuracy, patient comfort and satisfaction, and agreement with medical and nursing plans of care.

Check the value that best applies using the following scale:

5 = Good 3 = Satisfactory 1 = Poor
4 = More than satisfactory 2 = Less than satisfactory

- 4.1 Basic hygienic care (bathing, clean linen, oral hygiene, skin care).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.2 Basic feeding and toileting (assistance with meals if needed, fluids forced, prompt care of elimination needs).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.3 Mobility (turning as needed, ambulation, assistance in getting out of bed as needed, up in wheelchair, positioning).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.4 Medications, IV's (given as ordered and within time limits).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.5 Communication with patient and/or family (explanation of procedures, teaching, orientation, "therapeutic socializing").
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.6 Special procedures (oxygen maintained, dressings changed as needed, irrigations, catheter care, etc.).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.7 Observation of patients (nursing rounds, checking on signs, symptoms).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.8 Vital signs (taken as indicated or ordered).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.9 Rounds with or assist MD with special procedures.
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
- 4.10 Implementation of new orders without undue delay (dismissal orders, routine and stat orders).
1 _____ 2 _____ 3 _____ 4 _____ 5 _____

APPENDIX 13

OPERATIONAL DEFINITIONS

DIRECT PATIENT CARE: Physical or sensory interaction with the patient having a direct bearing on his needs such as: physical care of the patient, assisting doctor with examinations, treatment or procedure; talking with the patient.

INDIRECT PATIENT CARE: Patient-centered activities performed away from the patient such as: communications, planning his care, assessing his needs, preparation of medications, equipment, team conference, etc.

0. Personal Activities: Refers to meal time, coffee, personal telephone calls, socialization not related to work, personal toilet activities.

1. Off unit activities: Refers to activities which removes individual from the ward for less than a full 8 hour shift.

- a. Doctor or Dental Appointment (Outpatient Care)
- b. Mandatory Training (including ward/clinic or hospital in-service; DOES include Race Relations/Equal Opportunity Classes, etc.)
- c. Seminars and Continuing Education Requirements (Seminars, short courses, etc., ward/clinic in-service)
- d. Duty Roster Performance (Equivalent time-off after duty as CQ, CQ Runner, KP, Guard Duty, SDNCO, SDO (Military Only)
- e. Company Duty (Inspections, Parades, etc.)
- f. Compensatory Time
- g. Leave Without Pay (Less than 8 hours)
- h. Air Evacuation/Ambulance Runs
- i. Staff and Other Administrative Meetings (non-patient conferences)
- j. Educational Advancement Permitted During Duty Time
- k. Absence due to illness of dependent/taking dependent to medical appointment
- l. Miscellaneous (For those activities not covered by any other title, e.g., Court Duty, EEO Counselor Activities, Award Ceremonies not involving Parades, etc.)
- m. Orientation
- n. Inprocessing
- o. Outprocessing
- p. Civilian Annual Leave (Less than 8 hours) (DOES NOT include regular scheduled day(s) off during week)
- q. Ill (sick leave)

2. Communicative Acts - Refers to those communicative acts that are necessary in meeting requirements for patient care. These activities include answering the phone and all communicative acts between personnel.

3. Preparation of Medications, Supplies, and Equipment - Refers to the set-up and tear-down of all patient care supplies, medications, and equipment, and checking of all emergency equipment and supplies.

APPENDIX 13 Cont.

OPERATIONAL DEFINITIONS

4. Charting, Chart Reference, and Clerical - Refers to all activities involving the patient's care or written materials concerning the patient to include checking or reading the Kardex, careplan/chart transcription or writing of orders, writing in chart, Kardex, or careplan. All information to include vital signs, intake and output, completing or filing of clinical reports.

5. Conferences - Refers to those meetings or planning sessions which infringe upon direct nursing care time and includes the change of shift report, medical and nursing rounds, patient care conferences, and patient care planning (include written nursing care plan development).

6. Travel and Transportation Tasks - Refers to those activities that utilize nursing personnel in transporting people and objects. These activities include the transporting of patients, transporting of all supplies and equipment, transporting specimens and traveling on the ward.

7. Administrative Tasks - Refers to those activities that are performed in meeting general management needs of the patient care unit. These activities include the time schedule, staff assignments, efficiency reports, chart audit, manpower survey records, and special written reports.

8. Environmental Control Tasks - Refers to those cleaning activities that infringe upon direct nursing care time. These activities include cleaning the patient care unit, linen control, cleaning of ward equipment, mopping and cleaning the floors and emptying the trash.

9. Wait Time - Refers to those time intervals when the individual must wait for supplies, equipment, medical approval or similar actions. Include time staff may appear to be doing nothing, but waiting to render patient care.

APPENDIX 14

TRAINING SESSIONS - INDIRECT PATIENT CARE OBSERVERS

Introductions

Discussion of purpose, objective, roles, uniform requirements, & duty schedule.

METHODOLOGY -

Work sampling technique effective/accurate over time , will observe ea 10 min.

Discussed process, data collection instrument.

Caution against bias, don't anticipate, make "snap shot" observations.

Rotate about ward, observe each staff member as approached.

Randomize start time, place, and direction.

Remove yourself from area/staff between rounds.

Inquire into absence of staff-purpose being personal or business?

Make notations on back with additional information (ie odd shifts, borrowed help)

Use operational definitions carefully, refer to list often.

Some arbitrary definitions have been made (ie hand washing is "Prep of Meds").

Interaction with staff (other than asking for assistance in locating staff members) kept to a minimum, do distractions to staff .

Answer all questions regarding the study, forms, etc (staff or patients).

All observations, proceedings on ward etc CONFIDENTIAL.

No participating in care except in an emergency situation (immediate).

DATA COLLECTION SCHEDULE -

Each of the 9 MTFs observed on each type of ward (MED, SURG, PED, NBN, OB, CCU, & PSY) as follows:

Days = 5 times, Evenings = 3 times, Nights = 2 times TOTAL = 10 times.

If more than 1 ward of a type, the ward IDs were randomized.

Day-of-the-study (1 to 14) also randomized (adjusted only to allow 5 working days with 2 days off for each observer for the 2-week period.

APPENDIX 14 (cont)

Discussed coding instructions.

Issued supply of forms for practice, clip boards, name tags, #2 pencils, etc.

Discussed Subjective questionnaire to be completed by Charge Nurse for each shift - it must be completed near the end of the shift in order to reflect what transpired during that shift - no picking it up the next day, insist on getting it before they leave that shift.

Observer designated as "team leader" responsible for insuring all forms are audited, and collected. Also to furnish a copy of the corrected time schedule for the dates of the study.

TESTING & PRACTICE -

After thorough discussion of operational definitions and rationale for specific decision making, administered Test #1. Reviewed test results and discussed incorrect answers until all agree on proper definition and rationale used.

Practiced in pairs for remainder of first day of training on typical wards. Toured wards to be observed to establish boundaries and lounge area suitable for the observer to use between tours.

Meeting at beginning of second day to discuss problems/apprehension of the practice session and ask questions. After all comfortable with day one events, Test #2.

Discussed results of test #2 and practiced individually until time for exit briefing.

Trainer rotated among all wards during practice to observe observers and discuss study/questionnaire with HNs on wards to be observed during study. Last session at the end of day two to answer all questions, issue supply of forms, exchange contact phone numbers in case of emergency, and final review of instructions.

APPENDIX 14 (cont)

Requested complete name and address of observers for Letters of Appreciation.

Additional instructions to team leader regarding collection of data

instruments and mailing instructions. Also responsible to coordinate
alternate observer if needed.

APPENDIX 15

EXAMPLE OF WRITTEN TEST FOR OBSERVERS

Doing Work Sampling

1. _____ WC answering intercom.
2. _____ NA helping X-Ray Technician position patient.
3. _____ NA delivering dinner to patient.
4. _____ LPN helping patient brush teeth.
5. _____ LPN recording fluid intake.
6. _____ RN signing out a narcotic.
7. _____ NA bagging linen.
8. _____ HN off unit for administrative meeting.
9. _____ Two RN's making intershift narcotic count.
10. _____ LPN readed for staff bathroom.
11. _____ HN making out staff assignments.
12. _____ WC delivering mail to patients.
13. _____ 91B off unit for Head Count
14. _____ RN mixing an I.V. in the medicine room.
15. _____ LPN checking a surgical dressing.
16. _____ RN recording a medication given.
17. _____ LPN helping MD with a thoracentesis.
18. _____ RN showing patient how to administer own heparin injection.
19. _____ RN and LPN putting a new patient onto a Stryker frame.
20. _____ LPN helping post-op patient cough and deep breathe.
21. _____ NA applying TED's to patient's legs.
22. _____ Setting up a bladder irrigation.
23. _____ RN Checking patient's pupils.
24. _____ NA placing chux under patient.
25. _____ NA combing patient's hair.

26. _____ RN measuring T-tube drainage.
27. _____ LPN giving patient a backrub. H.S.
28. _____ RN checking emergency cart.
29. _____ RN and LPN in evaluation conference.
30. _____ LPN orienting a new LPN.
31. _____ NA off unit looking for lost wheelchair.
32. _____ WC making out TPR list.
33. _____ HN making entry in patient's chart.
34. _____ RN calling MD about patient's condition.
35. _____ Student consulting with RN about patient's order.
36. _____ HN changing order on Kardex.
37. _____ RN talking with resident about patient's diagnosis.
38. _____ HN making out referral form to VNA.
39. _____ LPN applying ice pack to patient's knee.
40. _____ NA's talking about movie seen on TV.
41. _____ RN starting oxygen on patient.
42. _____ LPN assisting patient walk down hallway.
43. _____ NA preparing room for a transfer patient.
44. _____ RN changing I.V. tubing.
45. _____ LPN checking circulation in toes of orthopedic patient.
46. _____ LPN doing range of motion exercises.
47. _____ HN making out staff hours.
48. _____ Night nurse noting swelling on patient's hand.
49. _____ HN adjusting footboard on patient's bed.
50. _____ Orderly (NA) adjusting monkey bar for patient.

APPENDIX 10
EXAMPLE OF WRITTEN TEST FOR OBSERVERS (2)

Doing Work Sampling

1. _____ WC answering intercom.
2. _____ NA helping X-Ray Technician position patient.
3. _____ NA delivering dinner to patient.
4. _____ LPN helping patient brush teeth.
5. _____ LPN recording fluid intake.
6. _____ RN signing out a narcotic.
7. _____ NA bagging linen.
8. _____ HN off unit for administrative meeting.
9. _____ Two RN's making intershift narcotic count.
10. _____ LPN removing chux from under patient.
11. _____ HN making out staff assignments.
12. _____ WC delivering mail to patients.
13. _____ RN charting total intake on patient's chart.
14. _____ RN mixing an I.V. in the medicine room.
15. _____ NA placing linen in laundry chute.
16. _____ RN recording a medication given.
17. _____ RN talking with pharmacist re patients medication.
18. _____ LPN and NA taking body to morque.
19. _____ RN and LPN putting a new patient onto a Stryker frame.
20. _____ RN talking with Chaplin.
21. _____ RN checking medication Kardex.
22. _____ LPN charting intake on I and O record at bedside.
23. _____ RN checking patient's pupils.
24. _____ RN hanging blood.
25. _____ RN sorting medicine cards.

26. _____ RN measuring T-tube drainage.
27. _____ RN assisting with after death care.
28. _____ RN reviewing patient classification.
29. _____ RN and LPN in evaluation conference.
30. _____ LPN orienting a new LPN.
31. _____ NA off unit looking for lost wheelchair.
32. _____ Two RNs counting narcotics.
33. _____ HN making entry in patient's chart.
34. _____ RN calling MD about patient's condition.
35. _____ WC checking supplies.
36. _____ HN changing order on Kardex.
37. _____ RN talking with resident about patient's diagnosis.
38. _____ HN making out referral form to VNA.
39. _____ LPN applying ice pack to patient's knee.
40. _____ NA's talking about movie seen on TV.
41. _____ RN starting oxygen on patient.
42. _____ RN demonstrating crutch walking.
43. _____ NA preparing room for a transfer patient.
44. _____ LPN to CMS for catheterization tray.
45. _____ LPN checking circulation in toes of orthopedic patient.
46. _____ LPN doing range of motion exercises.
47. _____ HN making out staff hours.
48. _____ Night nurse noting swelling on patient's hand.
49. _____ HN adjusting footboard on patient's bed.
50. _____ RN adjusting IV flow.

APPENDICES 17-25

Appendices 17-25 are comprised of the site specific data for the individual Medical Treatment Facilities. Tables are isomersous of the composite data. Therefore, Tables 6, 7, 9, 11, 21, and 24 are purposefully omitted for individual Medical Treatment Facilities.

APPENDIX 17

BROOKE ARMY MEDICAL CENTER
FORT SAM HOUSTON, TEXAS

Table 1

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

MO

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	17748	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 2

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

WEEKDAYS OF DATA COLLECTION

WKDAY DAY OF WEEK

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	1272	7.2	7.2	7.2
MONDAY	2	2514	14.2	14.2	21.3
TUESDAY	3	3384	19.1	19.1	40.4
WEDNESDAY	4	3228	18.2	18.2	58.6
THURSDAY	5	3492	19.7	19.7	78.3
FRIDAY	6	2166	12.2	12.2	90.5
SATURDAY	7	1692	9.5	9.5	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 3

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SHIFTS OF DATA COLLECTION

SHIFT

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	11550	65.1	65.1	65.1
EVENING	2	3894	21.9	21.9	87.0
NIGHT	3	2304	13.0	13.0	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 4

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

TYPE OF WARD

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-1	144	.8	.8	.8
MED	1	930	5.2	5.2	6.1
SURG	2	276	1.6	1.6	7.6
ORTHOPEDIC	4	882	5.0	5.0	12.6
OE	5	1362	7.7	7.7	20.3
OB L&D COMBO	7	1032	5.8	5.8	26.1
NEWBORN	8	1884	10.6	10.6	36.7
PEDS	9	2334	13.2	13.2	49.8
SICU	10	1944	11.0	11.0	60.8
MICU	11	912	5.1	5.1	65.9
CCU	12	336	1.9	1.9	67.8
ICU COMBO	13	672	3.8	3.8	71.6
PSYCHIATRY	16	3084	17.4	17.4	89.0
PED ICU	17	1956	11.0	11.0	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 5

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CLINICAL SERVICES

SERVICE TYPE OF PATIENT

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-1.00	144	.8	.8	.8
CRITICAL CARE	1.00	3864	21.8	21.8	22.6
MED SURG	2.00	2088	11.8	11.8	34.3
PSYCHIATRY	3.00	3084	17.4	17.4	51.7
OB LABOR DELIVERY	4.00	2394	13.5	13.5	65.2
NBN NICU	5.00	1884	10.6	10.6	75.8
PEDS PICU	6.00	4290	24.2	24.2	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 8

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

ACT ACTIVITY

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	5174	29.2	29.2	29.2
PERSONAL	0	1249	7.0	7.0	36.2
OFF UNIT ACTV	1	861	4.9	4.9	41.0
COMMUNICATIVE	2	1735	9.8	9.8	50.8
MEDS SUPPLIES EQUIP	3	995	5.6	5.6	56.4
CHARTING CLERICAL	4	1615	9.1	9.1	65.5
CONFERENCES	5	762	4.3	4.3	69.8
TRAVEL TRANSPORT	6	1433	8.1	8.1	77.9
ADMINISTRATION	7	2041	11.5	11.5	89.4
ENVIRONMENTAL	8	317	1.8	1.8	91.2
WAIT TIME	9	1566	8.8	8.8	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 10

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

PROV

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	1452	8.2	8.2	8.2
WARDMASTER	2	1410	7.9	7.9	16.1
RN	3	6522	36.7	36.7	52.9
91C	4	1728	9.7	9.7	62.6
LPN	5	738	4.2	4.2	66.8
91B 91F 91G	6	3324	18.7	18.7	85.5
AIDE	7	1254	7.1	7.1	92.6
WARD CLERK	8	1320	7.4	7.4	100.0
		-----	-----	-----	
	TOTAL	17748	100.0	100.0	
VALID CASES	17748	MISSING CASES	0		

Table 12

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

PROV	ACT	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224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Table 13

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PROV																	
COUNT	ROW	PC1	HEAD	NUP	WARD	PAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	RJM		
		ISE	11	21	31	41	51	61	71	81							
UNAVAILABLE	1	1	166	1	238	1	525	1	277	1	50	1	403	1	152	1	299
		1	7.9	1	11.3	1	24.9	1	13.1	1	2.4	1	19.1	1	7.2	1	14.2
		1	11.4	1	16.9	1	8.0	1	16.0	1	6.8	1	12.1	1	12.1	1	22.7
INDIRECT CARE	2	1	904	1	985	1	3864	1	801	1	504	1	1933	1	598	1	975
		1	8.6	1	9.4	1	36.9	1	7.7	1	4.8	1	17.5	1	5.7	1	9.3
		1	62.3	1	69.9	1	59.2	1	46.4	1	68.3	1	55.1	1	47.7	1	73.9
DIRECT CARE	3	1	382	1	187	1	2133	1	650	1	184	1	1388	1	504	1	46
		1	7.4	1	3.6	1	41.2	1	12.6	1	3.6	1	21.0	1	9.7	1	9.9
		1	26.3	1	13.3	1	32.7	1	37.6	1	24.9	1	32.7	1	40.2	1	3.5
COLUMN			1452		1410		5522		1728		738		3324		1254		1320
TOTAL			8.2		7.9		36.7		9.7		4.2		18.7		7.1		7.4
																	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 14

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

COUNT ROW PCT COL PCT	I	PROV										ROW TOTAL			
		I	II	2I	3I	4I	5I	6I	7I	8I					
SERVICE	HEAD NUR ISE	WARDMAST ER	RN	91C	LPN	91G	91F	AIDE	WARD CLE RK						
CRITICAL CARE	1	1	240	1	2052	1	768	1	258	1	162	1	144	1	3864
			6.2	1	53.1	1	19.9	1	6.7	1	4.2	1	3.7	1	21.9
			16.9	1	17.2	1	31.7	1	44.4	1	35.0	1	4.9	1	11.1
MED SURG	2	1	192	1	510	1	288	1	96	1	474	1	114	1	2068
			9.2	1	24.4	1	13.8	1	4.6	1	22.7	1	5.5	1	11.9
			13.6	1	13.8	1	7.9	1	16.7	1	14.3	1	9.1	1	17.1
PSYCHIAIRY	3	1	240	1	540	1		1		1	1360	1	522	1	3084
			7.6	1	5.3	1	17.5	1		1	44.7	1	16.9	1	17.5
			16.9	1	11.6	1	8.3	1		1	41.7	1	41.6	1	
OB LABJR DELIVER	4	1	192	1	912	1	48	1	288	1	450	1	96	1	2394
			8.0	1	38.1	1	2.0	1	12.0	1	18.8	1	4.0	1	13.6
			13.6	1	13.8	1	2.8	1	39.0	1	13.6	1	7.7	1	
NBN NICU	5	1	228	1	720	1	48	1	48	1	138	1	240	1	1384
			12.1	1	38.2	1	2.5	1	2.5	1	7.3	1	12.7	1	10.7
			16.1	1	11.1	1	2.8	1	6.5	1	4.2	1	19.1	1	
PEDS PICU	6	1	324	1	1734	1	576	1	48	1	702	1	282	1	4290
			7.6	1	40.4	1	13.4	1	1.1	1	15.4	1	6.6	1	24.4
			22.9	1	26.8	1	33.3	1	6.5	1	21.2	1	22.5	1	
COLUMN TOTAL			1416		6468		1728		738		3306		1254		17604
			8.0		36.7		9.8		4.2		19.8		7.1		100.0

NUMBER OF MISSING OBSERVATIONS = 144

Table 15

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

SERVICE	COUNT ROW CDL	PCT PCT	ACT	ACTV	11	31	21	PLIES	EQ	CLERICA	CES	51	61	71	ENTAL	IE	MIN	WAIT	TIM	ROW TOTAL	
CRITICAL CARE	1	136.6	1	247	1	399	1	246	1	339	1	174	1	281	1	291	1	62	1	197	1
	1	35.4	1	6.7	1	10.3	1	6.4	1	8.8	1	4.5	1	7.3	1	7.5	1	1.6	1	5.1	1
	1	26.5	1	21.1	1	28.9	1	23.0	1	24.9	1	22.9	1	19.8	1	14.5	1	19.7	1	12.8	1
MED SURG	2	63.6	1	125	1	172	1	168	1	229	1	85	1	208	1	261	1	40	1	96	1
	1	30.5	1	6.0	1	3.3	1	8.2	1	11.0	1	4.1	1	10.0	1	12.5	1	1.9	1	4.6	1
	1	12.3	1	10.2	1	8.0	1	17.0	1	14.2	1	11.2	1	14.6	1	13.0	1	12.7	1	6.3	1
PSYCHIATRY	3	83.4	1	198	1	143	1	66	1	203	1	246	1	171	1	483	1	15	1	393	1
	1	27.0	1	6.4	1	4.6	1	2.1	1	6.6	1	8.0	1	5.5	1	15.8	1	.5	1	12.7	1
	1	16.2	1	16.1	1	16.7	1	18.9	1	12.6	1	32.4	1	12.0	1	24.3	1	4.8	1	25.6	1
OB LABOR DELIVER	4	52.6	1	152	1	120	1	170	1	186	1	90	1	205	1	226	1	50	1	364	1
	1	22.0	1	6.3	1	5.0	1	7.1	1	7.8	1	3.8	1	8.6	1	9.4	1	2.1	1	15.2	1
	1	10.2	1	12.4	1	14.0	1	17.2	1	11.6	1	11.9	1	14.4	1	11.3	1	15.9	1	23.7	1
NBN NICU	5	49.1	1	169	1	149	1	117	1	170	1	35	1	151	1	321	1	40	1	116	1
	1	26.1	1	9.0	1	7.9	1	6.6	1	9.0	1	1.9	1	9.0	1	17.0	1	2.1	1	6.2	1
	1	9.5	1	13.7	1	17.4	1	7.2	1	10.6	1	4.6	1	10.6	1	16.0	1	12.7	1	7.6	1
PEDS PICU	6	129.8	1	326	1	128	1	404	1	481	1	129	1	406	1	419	1	107	1	370	1
	1	30.3	1	7.6	1	3.0	1	5.2	1	11.2	1	3.0	1	9.5	1	9.6	1	2.5	1	8.6	1
	1	25.2	1	26.5	1	15.0	1	23.3	1	22.4	1	17.0	1	28.6	1	20.9	1	34.1	1	24.1	1
COLUMN TOTAL	5153	1230	855	1732	989	1608	759	1422	2006	314	1536	17604	100.0								
	29.3	7.0	4.9	9.8	5.6	9.1	4.3	8.1	11.4	1.8	6.7										

NUMBER OF MISSING OBSERVATIONS = 144

Table 16

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT		ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
ROW	PCT	1	2	3	4	5	6	7	8	9	10	
COL	PCT	1	2	3	4	5	6	7	8	9	10	
PERIOD		1	2	3	4	5	6	7	8	9	10	
UNAVAILABLE	1	507	1	193	1	341	1	272	1	318	1	454
	2	24.3	1	9.3	1	16.4	1	13.0	1	15.3	1	21.8
	3	13.1	1	9.2	1	11.1	1	11.4	1	16.9	1	10.6
INDIRECT CARE	1	1989	1	1259	1	1909	1	1596	1	1075	1	2538
	2	19.2	1	12.1	1	18.4	1	15.4	1	10.4	1	24.5
	3	51.5	1	60.3	1	61.9	1	66.7	1	57.1	1	59.2
DIRECT CARE	1	1368	1	636	1	834	1	526	1	491	1	1298
	2	26.5	1	12.3	1	16.2	1	10.2	1	9.5	1	25.2
	3	35.4	1	30.5	1	27.0	1	22.0	1	26.1	1	30.3
COLUMN		3864	2088	3084	2394	1884	4290	17604				
TOTAL		21.9	11.9	17.5	13.6	10.7	24.4	100.0				

NUMBER OF MISSING OBSERVATIONS = 144

Table 17

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT	SERVICE										ROW TOTAL
		ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
		RY	21	31	41	51	61					
UNAVAILABLE	1	332	1	155	1	244	1	221	1	241	1	394
	1	20.9	1	9.8	1	15.4	1	13.9	1	15.2	1	24.8
	1	12.1	1	11.5	1	12.2	1	16.2	1	20.3	1	14.2
	1	1337	1	769	1	1234	1	751	1	694	1	1522
INDIRECT CARE	1	21.2	1	12.2	1	19.6	1	11.9	1	11.0	1	24.1
	1	48.9	1	57.0	1	61.9	1	55.1	1	58.4	1	54.8
	1	1067	1	426	1	514	1	350	1	253	1	862
DIRECT CARE	1	30.4	1	12.1	1	14.6	1	11.1	1	7.2	1	24.5
	1	39.0	1	31.6	1	25.8	1	28.6	1	21.3	1	31.0
	1	2736	1350	1992	1362	1188	2778	11406				
TOTAL		24.0	11.8	17.5	11.9	10.4	24.4	100.0				

NUMBER OF MISSING OBSERVATIONS = 144

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE												
COUNT	I	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	ROW TOTAL
COL PCT	I CARE	RY	DELIVER									
PER TOT		11	21	31	41	51	61					
UNAVAILABLE	1	88	1	38	1	86	1	40	1	48	1	350
		25.1	1	10.9	1	24.6	1	11.4	1	13.7	1	9.0
		12.6	1	7.2	1	14.1	1	6.7	1	11.3	1	
INDIRECT CARE	2	392	1	347	1	290	1	439	1	203	1	2348
		16.7	1	14.8	1	12.4	1	18.7	1	8.6	1	60.3
		56.3	1	65.7	1	47.4	1	73.2	1	47.7	1	
DIRECT CARE	3	216	1	143	1	236	1	121	1	175	1	1196
		18.1	1	12.0	1	19.7	1	10.1	1	14.6	1	30.7
		31.0	1	27.1	1	38.6	1	20.2	1	41.1	1	
COLUMN TOTAL		696		528		612		600		426		3894
		17.9		13.6		15.7		15.4		10.9		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE													ROW TOTAL
COUNT ROW PCT COL PCT	I	11	21	31	41	51	61	PIC	U	PEDS	NBN		
ICRITICAL MED SURG PSYCHIAT OB LABOR DELIVER	I CARE	RY	DELIVER										
PERIOD	1	11	21	31	41	51	61						
UNAVAILABLE	1	87	1	11	1	11	1	29	1	10	1	148	
	1	58.8	1	1	7.4	1	7.4	1	19.6	1	6.8	6.4	
	1	20.1	1	1	2.3	1	2.5	1	10.7	1	2.1	1	
INDIRECT CARE	2	260	1	143	1	385	1	406	1	178	1	1711	
	1	15.2	1	8.4	1	22.5	1	23.7	1	10.4	1	74.3	
	1	60.2	1	68.1	1	80.2	1	94.0	1	65.9	1	70.6	
DIRECT CARE	3	85	1	67	1	84	1	15	1	63	1	445	
	1	19.1	1	15.1	1	18.9	1	3.4	1	14.2	1	19.3	
	1	19.7	1	31.9	1	17.5	1	3.5	1	23.3	1	27.3	
COLUMN TOTAL		432	210	480	432	270	480					2304	
		18.8	9.1	20.8	18.8	11.7	20.8					100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT NURSING

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	1735	16.6
MEDS SUPPLIES EQUIP	3	995	9.5
CHARTING CLERICAL	4	1615	15.4
CONFERENCES	5	762	7.3
TRAVEL TRANSPORT	6	1433	13.7
ADMINISTRATION	7	2041	19.5
ENVIRONMENTAL	8	317	3.0
WAIT TIME	9	1565	15.0
		-----	-----
	TOTAL	10464	100.0
VALID CASES	10464	MISSING CASES	0

Table 22
BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

ACT	COUNT	ROW	PCT	PROV										ROW TOTAL						
				HEAD	NUR	WARD	PAST	RN	91C	LPN	91B	91F	AIDE		WARD	CLE				
				ISE	ER	ER	ER	ER	91C	LPN	91B	91F	AIDE		WKK	81				
				1	11	21	31	41	51	61	71	81								
COMMUNICATIVE	2	1		244	1	42	1	790	1	134	1	67	1	237	1	39	1	142	1	1735
		1		14.1	1	4.7	1	45.5	1	7.7	1	3.9	1	13.7	1	2.2	1	8.2	1	16.6
		1		27.0	1	8.3	1	20.4	1	16.7	1	13.3	1	12.9	1	6.5	1	14.6	1	
NEWS SUPPLIES	3	1		45	1	135	1	470	1	113	1	57	1	110	1	59	1	4	1	995
	EW	1		4.5	1	13.6	1	47.2	1	11.4	1	5.9	1	11.1	1	5.9	1	.4	1	9.5
		1		5.0	1	13.7	1	12.2	1	14.1	1	11.7	1	6.0	1	9.9	1	.4	1	
CHARTING CLERICAL	4	1		168	1	7	1	896	1	143	1	58	1	180	1	53	1	150	1	1615
		1		10.4	1	.4	1	53.0	1	8.9	1	5.6	1	11.1	1	3.3	1	9.3	1	15.6
		1		18.6	1	.7	1	22.2	1	17.9	1	11.5	1	9.8	1	8.9	1	15.4	1	
CONFERENCES	5	1		151	1	50	1	330	1	53	1	29	1	109	1	38	1	2	1	762
		1		19.6	1	6.6	1	43.3	1	7.0	1	3.8	1	14.3	1	5.0	1	.3	1	7.3
		1		16.7	1	5.1	1	6.5	1	6.6	1	5.6	1	5.9	1	6.4	1	.2	1	
TRAVEL TRANSPORT	6	1		36	1	147	1	455	1	136	1	101	1	327	1	140	1	87	1	1433
		1		2.7	1	10.3	1	31.8	1	9.6	1	7.0	1	22.8	1	9.8	1	6.1	1	13.7
		1		4.2	1	14.9	1	11.8	1	17.2	1	20.0	1	17.8	1	23.4	1	8.9	1	
ADMINISTRATION	7	1		241	1	514	1	329	1	61	1	6	1	298	1	40	1	552	1	2061
		1		11.8	1	25.2	1	16.1	1	3.0	1	.3	1	14.6	1	2.0	1	27.0	1	19.5
		1		26.7	1	52.2	1	8.5	1	7.6	1	1.2	1	15.3	1	6.7	1	56.6	1	
ENVIRONMENTAL	8	1		3	1	40	1	72	1	40	1	36	1	64	1	57	1	5	1	317
		1		.9	1	12.6	1	22.7	1	12.6	1	11.4	1	20.2	1	18.0	1	1.6	1	3.0
		1		.3	1	4.1	1	1.9	1	5.0	1	7.1	1	3.5	1	9.5	1	.5	1	
WAIT TIME	9	1		14	1	10	1	562	1	119	1	148	1	508	1	172	1	33	1	1566
		1		.9	1	.6	1	35.9	1	7.6	1	9.5	1	32.4	1	11.0	1	2.1	1	15.0
		1		1.5	1	1.0	1	14.5	1	14.9	1	29.4	1	27.7	1	28.8	1	3.4	1	
COLUMN TOTAL				904		965		3864		801		504		1333		598		975		10464
				8.6		9.4		36.9		7.7		4.8		17.5		5.7		9.3		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 23
BAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

ACT	COUNT	SERVICE								TOTAL
		CRITICAL CARE	ICU	ED	LABOR & DELIVER	OB	PSYCHIATRY	U	LABOR & DELIVER	
		1	2	3	4	5	6	7	8	
COMMUNICATIVE	2	399	172	327	305	125	404			1732
		23.0	9.9	18.9	17.6	7.2	23.3			16.7
		20.1	13.7	17.1	19.1	11.6	15.9			
MEDS SUPPLIES	3	246	168	66	170	117	222			989
		24.9	17.0	6.7	17.2	11.8	22.4			9.5
		12.4	13.3	3.5	10.7	10.9	9.7			
CHARTING CLERICAL	4	339	229	233	186	170	481			1608
		21.1	14.2	12.6	11.6	10.6	29.9			15.5
		17.0	18.2	10.6	11.7	15.8	19.0			
CONFERENCES	5	174	85	246	90	35	129			759
		22.9	11.2	32.4	11.9	4.6	17.0			7.3
		8.7	6.8	12.9	5.6	3.3	5.1			
TRAVEL TRANSPORT	6	281	208	171	205	151	406			1422
		19.8	14.6	12.0	14.4	10.6	29.6			13.7
		14.1	10.5	9.0	12.8	14.0	15.0			
ADMINISTRATION	7	291	261	488	226	321	419			2006
		14.5	13.0	24.3	11.3	16.0	23.9			19.4
		14.6	20.7	25.6	14.2	29.9	15.5			
ENVIRONMENTAL	8	62	40	15	50	40	107			314
		19.7	12.7	4.8	15.9	12.7	34.1			3.0
		3.1	3.2	.8	3.1	3.7	4.2			
WAIT TIME	9	197	46	393	364	116	370			1536
		12.8	6.3	25.6	23.7	7.6	24.1			14.8
		9.9	7.6	20.6	22.8	10.8	14.6			
COLUMN TOTAL		1989	1259	1939	1596	1075	2538			10366
		19.2	12.1	18.4	15.4	10.4	24.5			100.0

NUMBER OF MISSING OBSERVATIONS = 90

APPENDIX 18

DARNALL ARMY COMMUNITY HOSPITAL
FORT HOOD, TEXAS

Table 1

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

MC

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	13932	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932				
		MISSING CASES	0		

Table 2
Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	996	7.1	7.1	7.1
MONDAY	2	2118	15.2	15.2	22.4
TUE SDAY	3	2292	16.5	16.5	38.8
WEDNESDAY	4	2514	18.0	18.0	56.8
THURSDAY	5	2766	19.9	19.9	76.7
FRIDAY	6	2322	16.7	16.7	93.4
SATURDAY	7	924	6.6	6.6	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932	MISSING CASES	0		

Table 3

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
 SHIFTS OF DATA COLLECTION

SHIFT

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	8718	62.6	62.6	62.6
EVENING	2	3390	24.3	24.3	86.9
NIGHT	3	1824	13.1	13.1	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932	MISSING CASES	0		

Table 4

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	1398	10.0	10.0	10.0
SURG	2	1866	13.4	13.4	23.4
OB	5	876	6.3	6.3	29.7
LABOR & DELIVERY	6	1386	9.9	9.9	39.7
NEWBORN	8	2736	19.6	19.6	59.3
PEDS	9	2010	14.4	14.4	73.7
CCU	12	972	7.0	7.0	80.7
ICU COMB	13	312	2.2	2.2	82.9
PSYCHIATRY	16	2376	17.1	17.1	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932	MISSING CASES	0		

Table 5

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	1284	9.2	9.2	9.2
MED SURG	2.00	3264	23.4	23.4	32.6
PSYCHIATRY	3.00	2376	17.1	17.1	49.7
OB LABOR DELIVERY	4.00	2262	16.2	16.2	65.9
NBN NICU	5.00	2736	19.6	19.6	85.6
PEDS PICU	6.00	2010	14.4	14.4	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932	MISSING CASES	0		

Table 8

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

ACT ACTIVITY

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	3784	27.2	27.2	27.2
PERSONAL	0	1290	9.3	9.3	36.4
OFF UNIT ACTV	1	639	4.6	4.6	41.0
COMMUNICATIVE	2	1132	8.1	8.1	49.1
MEDS SUPPLIES EQUIP	3	573	4.1	4.1	53.2
CHARTING CLERICAL	4	1984	14.2	14.2	67.5
CONFERENCES	5	678	4.9	4.9	72.4
TRAVEL TRANSPORT	6	1803	12.9	12.9	85.3
ADMINISTRATION	7	981	7.0	7.0	92.3
ENVIRONMENTAL	8	327	2.3	2.3	94.7
WAIT TIME	9	741	5.3	5.3	100.0
		-----	-----	-----	
	TCTAL	13932	100.0	100.0	
VALID CASES	13932				
MISSING CASES	0				

Table 10

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-1	186	1.3	1.3	1.3
HEAD NURSE	1	930	6.7	6.7	8.0
WARDMASTER	2	1152	8.3	8.3	16.3
RN	3	4698	33.7	33.7	50.0
91C	4	342	2.5	2.5	52.5
LPN	5	324	2.3	2.3	54.8
91B 91F 91G	6	3360	24.1	24.1	78.9
AIDE	7	2226	16.0	16.0	94.9
WARD CLERK	8	714	5.1	5.1	100.0
		-----	-----	-----	
	TOTAL	13932	100.0	100.0	
VALID CASES	13932	MISSING CASES	0		

Table 12

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

PROV	COUNT	ACT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	12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Table 13

Darna11

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PROV																	
COUNT	ROW	PCT	I	HEAD	NUR	WARD	PAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	RJW	
CCL	PCT	ISE	I	ER	ER	ER	ER	ER	ER	ER	91C	91C	91C	RK	TOTAL	TOTAL	
PERIOD			1	11	21	31	41	51	61	71	81						
UNAVAILABLE	1	1	16.1	1	20.3	1	59.5	1	40	1	57	1	47.4	1	21.3	1	171
	1	1	8.4	1	10.6	1	31.1	1	2.1	1	3.0	1	24.8	1	11.1	1	8.9
	1	1	17.3	1	17.6	1	12.7	1	11.7	1	17.6	1	14.1	1	9.6	1	23.9
INDIRECT CARE	2	1	61.1	1	81.7	1	2900	1	214	1	155	1	178.7	1	1170	1	503
	1	1	7.5	1	10.0	1	35.6	1	2.6	1	1.9	1	21.9	1	14.3	1	6.2
	1	1	65.7	1	70.9	1	61.7	1	62.6	1	47.6	1	53.2	1	52.6	1	70.4
DIRECT CARE	3	1	15.8	1	13.2	1	1203	1	88	1	112	1	1099	1	843	1	40
	1	1	4.3	1	3.6	1	32.7	1	2.4	1	3.0	1	29.9	1	22.9	1	1.1
	1	1	17.0	1	11.5	1	25.6	1	25.7	1	34.6	1	32.7	1	37.9	1	5.6
CCLUMN	930	1152	4698	342	2.5	324	3360	2226	714	13746							
TOTAL	6.6	8.4	34.2	2.5	2.4	26.4	16.2	5.2	100.0								

NUMBER OF MISSING OBSERVATIONS = 186

Table 14

Darna11

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

SERVICE	COUNT ROW PCT COL PCT	PROV										WARD CLE RK	RWJ TOTAL
		I	HEAD NUR	WARDMAST	RN	91C	LPN	91B 91F 91G	AIDE	6I	7I	8I	
CRITICAL CARE	1	66	1	144	1	592	1	102	1	390	1	1	1284
		5.1	1	11.2	1	45.3	1	7.9	1	30.4	1	1	9.3
	1	7.1	1	12.5	1	12.4	1	29.8	1	11.6	1	1	
MED SURG	2	144	1	192	1	1152	1	48	1	96	1	150	3254
	1	4.4	1	5.9	1	35.3	1	1.5	1	2.9	1	4.6	23.7
	1	15.5	1	16.7	1	24.5	1	14.0	1	29.6	1	21.0	
PSYCHIATRY	3	144	1	246	1	570	1	96	1	450	1	774	2280
	1	6.3	1	10.8	1	25.0	1	4.2	1	19.7	1	33.9	16.6
	1	15.5	1	21.4	1	12.1	1	29.6	1	13.4	1	34.9	
OB LABOR DELIVER	4	144	1	192	1	888	1	96	1	522	1	168	2262
	1	6.4	1	8.5	1	39.3	1	4.2	1	23.1	1	7.4	15.5
	1	15.5	1	16.7	1	18.9	1	28.1	1	15.5	1	23.5	
MEN NICU	5	192	1	192	1	960	1	96	1	132	1	156	2646
	1	7.3	1	7.3	1	36.3	1	3.6	1	5.0	1	5.9	19.2
	1	20.6	1	16.7	1	20.4	1	28.1	1	40.7	1	21.8	
PEDS PICU	6	240	1	166	1	546	1	1	1	582	1	240	2310
	1	11.9	1	9.3	1	27.2	1	1	1	30.1	1	11.9	14.6
	1	25.8	1	16.1	1	11.6	1	1	1	19.0	1	33.6	
COLUMN TOTAL		930		1152		4698		342		324		714	13746
		6.6		8.4		34.2		2.5		2.4		5.2	100.0

NUMBER OF MISSING OBSERVATIONS = 186

Table 15

Darna11

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

COUNT ROW PCT COL PCT	SERVICE	ACT																					TOTAL	
		INDIRECT -11	PERSONAL 01	OFF 11	UNIT 21	COMMUNIC 31	MEDS 41	SUP 51	CHARTING 61	CONFEREN 71	CEC 81	TRANSPORT 91	TRAVEL 02	ADMINIST 12	ENVIRON 22	MAINT 32	YIM 42							
CRITICAL CARE	1	302	1	60	1	74	1	95	1	37	1	264	1	76	1	123	1	97	1	9	1	77	1	1264
	1	29.8	1	4.7	1	5.8	1	7.4	1	2.9	1	20.6	1	5.9	1	9.6	1	6.8	1	.7	1	6.0	1	9.2
	1	10.1	1	4.7	1	11.6	1	8.4	1	6.5	1	13.3	1	11.2	1	6.8	1	8.9	1	2.8	1	10.4	1	
MED SURG	2	671	1	366	1	104	1	266	1	202	1	533	1	154	1	573	1	193	1	64	1	138	1	3264
	1	20.6	1	11.2	1	3.2	1	8.1	1	6.2	1	16.3	1	4.7	1	17.6	1	5.9	1	2.0	1	4.2	1	23.4
	1	17.7	1	28.4	1	16.3	1	23.5	1	35.3	1	26.9	1	22.7	1	31.8	1	19.7	1	19.6	1	18.6	1	
PSYCHIATRY	3	831	1	147	1	75	1	162	1	22	1	305	1	158	1	218	1	191	1	37	1	230	1	2376
	1	35.0	1	6.2	1	3.2	1	6.8	1	.9	1	12.8	1	6.6	1	9.2	1	8.0	1	1.6	1	9.7	1	17.1
	1	22.0	1	11.4	1	11.7	1	14.3	1	3.2	1	15.4	1	23.3	1	12.1	1	19.5	1	11.3	1	31.0	1	
OB LABOR DELIVER	4	458	1	204	1	138	1	220	1	118	1	325	1	67	1	289	1	241	1	114	1	86	1	2262
	1	20.2	1	9.0	1	6.1	1	9.7	1	5.2	1	14.4	1	3.0	1	12.8	1	10.7	1	5.0	1	3.9	1	16.2
	1	12.1	1	15.8	1	21.6	1	19.4	1	20.6	1	16.4	1	9.9	1	16.0	1	24.6	1	34.9	1	11.9	1	
MBN NICU	5	957	1	262	1	56	1	187	1	114	1	359	1	134	1	378	1	124	1	60	1	105	1	2736
	1	35.0	1	9.6	1	2.0	1	6.8	1	4.2	1	13.1	1	4.9	1	13.8	1	4.5	1	2.2	1	3.6	1	19.6
	1	25.3	1	20.3	1	8.8	1	16.5	1	19.9	1	18.1	1	19.8	1	21.0	1	12.6	1	18.3	1	14.2	1	
PEDS PICU	6	485	1	251	1	192	1	202	1	80	1	198	1	89	1	222	1	145	1	43	1	103	1	2010
	1	24.1	1	12.5	1	9.6	1	10.0	1	4.0	1	9.9	1	4.4	1	11.0	1	7.2	1	2.1	1	5.1	1	14.4
	1	12.8	1	19.5	1	30.0	1	17.8	1	14.0	1	10.0	1	13.1	1	12.3	1	14.8	1	13.1	1	13.9	1	
COLUMN TOTAL		3784		1290		639		1132		573		1984		678		1803		991		327		741		13932
		27.2		9.3		4.6		8.1		4.1		14.2		4.9		12.9		7.0		2.3		5.3		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 16

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE													ROW TOTAL	
COUNT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC				
COL PCT	CARE	11	21	31	41	51	61							
PERIOD	1	134	1	470	1	222	1	342	1	318	1	443	1	1929
UNAVAILABLE	1	6.9	1	24.4	1	11.5	1	17.7	1	16.5	1	23.0	1	13.8
	1	10.4	1	14.4	1	9.3	1	15.1	1	11.6	1	22.0	1	
	2	768	1	2123	1	1323	1	1462	1	1461	1	1382	1	8219
INDIRECT CARE	1	9.3	1	25.8	1	16.1	1	17.8	1	17.8	1	13.2	1	59.0
	1	59.8	1	65.0	1	55.7	1	64.6	1	53.4	1	53.8	1	
	3	382	1	671	1	831	1	458	1	957	1	485	1	3784
DIRECT CARE	1	10.1	1	17.7	1	22.0	1	12.1	1	25.3	1	12.8	1	27.2
	1	29.8	1	20.6	1	35.0	1	20.2	1	35.0	1	24.1	1	
COLUMN	1284	3264	2376	2262	2736	2010	2736	2010	2736	2010	2736	2010	2736	13932
TOTAL	9.2	23.4	17.1	16.2	19.6	14.4	19.6	14.4	19.6	14.4	19.6	14.4	19.6	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT ROW PCT COL PCT	SERVICE										ROW TOTAL
		ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBM	NICU	PEDS	PIC	
		1	11	21	31	41	51	61				
UNAVAILABLE	1	88	1	390	1	167	1	257	1	189	1	1410
		6.2	1	27.7	1	11.8	1	18.2	1	13.4	1	16.2
	1	11.3	1	17.8	1	10.5	1	19.3	1	12.9	1	23.4
INDIRECT CARE	2	470	1	1378	1	867	1	867	1	853	1	5210
		9.0	1	26.4	1	16.6	1	16.6	1	16.4	1	59.8
	1	60.3	1	62.9	1	54.7	1	65.1	1	58.0	1	56.9
DIRECT CARE	3	222	1	422	1	550	1	208	1	428	1	2098
		10.6	1	20.1	1	26.2	1	9.9	1	20.4	1	24.1
	1	28.5	1	19.3	1	34.7	1	15.6	1	29.1	1	19.7
COLUMN TOTAL		780	2190	1584	1332	1470	1362	1470	1362	1362	1362	8718
		8.9	25.1	18.2	15.3	16.9	15.6	16.9	15.6	15.6	15.6	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

COUNT		SERVICE										ROW TOTAL
ROW	PCT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NON	NICU	PEDS	PIC	
COL	PCT	CARE			RY	DELIVER				U		
		1	11	21	31	41		51	61			
		1	38	73	50	64		102	124		471	
		1	8.1	15.5	10.6	17.8		21.7	26.3		13.9	
		1	12.2	11.4	9.9	13.1		13.8	22.5			
		2	154	398	232	357		318	244		1743	
		1	8.8	22.8	13.3	22.8		18.2	14.0		51.4	
		1	49.4	62.0	46.0	61.8		43.1	44.2			
		3	120	171	222	161		318	184		1176	
		1	10.2	14.5	18.9	13.7		27.0	15.6		34.7	
		1	38.5	26.6	44.0	25.1		43.1	33.3			
		COLUMN	312	642	504	642		738	552		3390	
		TOTAL	9.2	18.9	14.9	18.9		21.8	16.3		100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE													ROW TOTAL
COUNT		ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC		
ROW	PCT	CARE					DELIVER						
COL	PCT												
PERTOT													
UNAVAILABLE		1	1	8	1	7	1	5	1	1	27	1	48
		1	16.7	1	14.6	1	10.4	1	2.1	1	56.3	1	2.6
		1	4.2	1	1.6	1	1.7	1	.3	1	5.1	1	
INDIRECT CARE		2	1	144	1	347	1	224	1	198	1	290	1266
		1	11.4	1	27.4	1	17.7	1	15.6	1	22.9	1	69.4
		1	75.0	1	80.3	1	77.8	1	68.8	1	54.9	1	
DIRECT CARE		3	1	40	1	78	1	59	1	89	1	211	510
		1	7.8	1	15.3	1	11.6	1	17.5	1	41.4	1	28.0
		1	20.8	1	18.1	1	20.5	1	30.9	1	40.0	1	
COLUMN TOTAL			192	432	288	288	288	288	288	528	96		1824
			10.5	23.7	15.8	15.8	15.8	15.8	15.8	28.9	5.3		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT CARE

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	1132	13.6
MEDS SUPPLIES EQUIP	3	573	7.0
CHARTING CLERICAL	4	1984	24.1
CONFERENCES	5	573	8.2
TRAVEL TRANSPORT	6	1803	21.9
ADMINISTRATION	7	981	11.9
ENVIRONMENTAL	8	327	4.0
WAIT TIME	9	741	9.0
		-----	-----
	TOTAL	6219	100.0
VALID CASES	8219	MISSING CASES	0

Table 22
Darnall

TIME SPENT IN INDIRECT NURSING CARE STUDY
INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW PCT COL PCT	PROV																ROW TOTAL	
		HEAD NUR	WARDMAST	RN	91C	LPM	91B 91F 91G	AIDE	WARD CLE										
		ISE	ER	21	31	41	51	61	71	81									
		1	11	21	31	41	51	61	71	81									
COMMUNICATIVE	2	1	145	1	83	1	470	1	28	1	18	1	171	1	102	1	111	1	1128
		1	12.9	1	7.4	1	41.7	1	2.5	1	1.6	1	15.2	1	9.0	1	9.8	1	13.8
		1	23.7	1	10.2	1	16.2	1	13.1	1	11.6	1	9.6	1	8.7	1	22.1	1	
MEDS SUPPLIES	3	1	24	1	34	1	333	1	16	1	2	1	95	1	56	1	10	1	570
	64	1	4.2	1	6.0	1	58.4	1	2.8	1	.4	1	15.7	1	9.8	1	1.8	1	7.0
		1	3.9	1	4.2	1	11.5	1	7.5	1	1.3	1	5.3	1	4.8	1	2.0	1	
CHARTING CLERICAL	4	1	84	1	46	1	904	1	37	1	41	1	358	1	281	1	206	1	1957
		1	4.3	1	2.4	1	46.2	1	1.9	1	2.1	1	18.3	1	14.4	1	10.5	1	24.0
		1	13.7	1	5.6	1	31.2	1	17.3	1	26.5	1	20.0	1	24.0	1	41.0	1	
CONFERENCES	5	1	88	1	43	1	279	1	12	1	11	1	117	1	122	1	2	1	674
		1	13.1	1	6.4	1	41.4	1	1.8	1	1.6	1	17.4	1	18.1	1	.3	1	8.3
		1	14.4	1	5.3	1	9.6	1	5.6	1	7.1	1	5.5	1	10.4	1	.4	1	
TRAVEL TRANSPORT	6	1	114	1	152	1	456	1	72	1	67	1	546	1	297	1	82	1	1786
		1	6.4	1	8.5	1	25.5	1	4.0	1	3.8	1	33.6	1	16.6	1	4.6	1	21.9
		1	18.7	1	18.6	1	15.7	1	33.6	1	43.2	1	30.6	1	25.4	1	16.3	1	
ADMINISTRATION	7	1	152	1	417	1	232	1	24	1	4	1	79	1	27	1	74	1	979
		1	15.5	1	42.6	1	20.6	1	2.5	1	.4	1	8.1	1	2.8	1	7.6	1	12.0
		1	24.9	1	51.0	1	7.0	1	11.2	1	2.6	1	4.4	1	2.3	1	14.7	1	
ENVIRONMENTAL	8	1		1	5	1	24	1	17	1	4	1	182	1	93	1	1	1	326
		1		1	1.5	1	7.4	1	5.2	1	1.2	1	55.8	1	28.5	1	.3	1	4.0
		1		1	.6	1	.8	1	7.9	1	2.6	1	10.2	1	7.9	1	.2	1	
WAIT TIME	9	1	4	1	37	1	232	1	8	1	8	1	239	1	192	1	17	1	737
		1	.5	1	5.0	1	31.5	1	1.1	1	1.1	1	32.4	1	26.1	1	2.3	1	9.0
		1	.7	1	4.5	1	8.0	1	3.7	1	5.2	1	13.6	1	16.4	1	3.4	1	
COLUMN TOTAL			611		817		2930		214		155		1787		1170		503		8157
			7.5		10.0		35.6		2.6		1.9		21.9		14.3		6.2		100.0

NUMBER OF MISSING OBSERVATIONS = 62

Table 23
Darna11

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

		SERVICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 19

GENERAL LEONARD WOOD ARMY COMMUNITY HOSPITAL
FORT LEONARD WOOD, MISSOURI

Table 1
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

MG

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	10728	85.3	85.3	85.3
APRIL	4	1854	14.7	14.7	100.0
		<hr/>	<hr/>	<hr/>	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 2
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	1002	8.0	8.0	8.0
MONDAY	2	1650	13.1	13.1	21.1
TUESDAY	3	3042	24.2	24.2	45.3
WEDNESDAY	4	2322	18.5	18.5	63.7
THURSDAY	5	2160	17.2	17.2	80.9
FRIDAY	6	1596	12.7	12.7	93.6
SATURDAY	7	810	6.4	6.4	100.0
		-----	-----	-----	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 3
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	7878	62.6	62.6	62.6
EVENING	2	3168	25.2	25.2	87.8
NIGHT	3	1536	12.2	12.2	100.0
		<u>12582</u>	<u>100.0</u>	<u>100.0</u>	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 4

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	2394	19.0	19.0	19.0
MED SURG	2.00	3126	24.8	24.8	43.9
PSYCHIATRY	3.00	2196	17.5	17.5	61.3
OB LABOR DELIVERY	4.00	2136	17.0	17.0	78.3
NBN NICU	5.00	1410	11.2	11.2	89.5
PEDS PICU	6.00	1320	10.5	10.5	100.0
		-----	-----	-----	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 5
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	960	7.6	7.6	7.6
SURG	2	1734	13.8	13.8	21.4
ORTHOPEDIC	4	432	3.4	3.4	24.8
OB	5	288	2.3	2.3	27.1
LABOR & DELIVERY	6	252	2.0	2.0	29.1
OB L&D COMBO	7	1596	12.7	12.7	41.8
NEWBORN	8	1410	11.2	11.2	53.0
PEDS	9	1320	10.5	10.5	63.5
ICU COMBO	13	2394	19.0	19.0	82.5
PSYCHIATRY	16	2196	17.5	17.5	100.0
		-----	-----	-----	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 8
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	2347	18.7	18.7	18.7
PERSONAL	0	1012	8.0	8.0	26.7
OFF UNIT ACTV	1	1655	13.2	13.2	39.9
COMMUNICATIVE	2	1499	11.9	11.9	51.8
MEDS SUPPLIES EQUIP	3	565	4.5	4.5	56.3
CHARTING CLERICAL	4	1270	10.1	10.1	66.3
CONFERENCES	5	479	3.8	3.8	70.2
TRAVEL TRANSPORT	6	901	7.2	7.2	77.3
ADMINISTRATION	7	1068	8.5	8.5	85.8
ENVIRONMENTAL	8	170	1.4	1.4	87.2
WAIT TIME	9	1616	12.8	12.8	100.0
		-----	-----	-----	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 10
General Wood
TIME SPENT IN INDIRECT NURSING CARE STUDY
CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	1110	8.8	8.8	8.8
WARDMASTER	2	1200	9.5	9.5	18.4
RN	3	3786	30.1	30.1	48.5
91C	4	966	7.7	7.7	56.1
LPN	5	1194	9.5	9.5	65.6
91B 91F 91G	6	3102	24.7	24.7	90.3
AIDE	7	816	6.5	6.5	96.8
WARD CLERK	8	409	3.2	3.2	100.0
		-----	-----	-----	
	TOTAL	12582	100.0	100.0	
VALID CASES	12582	MISSING CASES	0		

Table 12

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ROW PCT	COL PCT	I	ACT	ACTIVITY										TOTAL						
					1	2	3	4	5	6	7	8	9	10							
PROV					11	01	ACTV	OFF UNIT	COMMUNIC	MEDS SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	WAIT	TIM				
					-11		IARE			PLIES EQ	CLERICAL	CES	RANSPO	RATION	ENTAL	IE					
										21	31	41	51	61	71	81	91				
HEAD NURSE	1	1	41	1	43	1	236	1	208	1	30	1	48	1	76	1	37	1	328	1	1110
			3.7	1	3.9	1	21.3	1	18.7	1	2.7	1	4.3	1	6.8	1	3.3	1	29.5	1	8.8
			1.7	1	4.2	1	14.3	1	13.9	1	5.3	1	3.8	1	15.9	1	4.1	1	30.7	1	3.9
WARDMASTER	2	1	46	1	105	1	342	1	179	1	30	1	53	1	27	1	94	1	252	1	1200
			3.6	1	8.8	1	28.5	1	14.9	1	2.5	1	4.4	1	2.3	1	7.8	1	21.0	1	9.5
			2.0	1	10.4	1	20.7	1	11.9	1	5.3	1	4.2	1	5.6	1	10.4	1	23.6	1	4.2
RN	3	1	624	1	231	1	624	1	560	1	204	1	453	1	177	1	167	1	255	1	3786
			16.5	1	6.1	1	16.5	1	14.8	1	5.4	1	12.0	1	4.7	1	4.4	1	6.7	1	30.1
			26.6	1	22.8	1	37.7	1	37.4	1	36.1	1	35.7	1	37.0	1	19.5	1	23.9	1	28.7
91C	4	1	303	1	80	1	87	1	91	1	55	1	121	1	23	1	102	1	41	1	966
			31.4	1	8.3	1	9.0	1	9.4	1	5.7	1	12.5	1	2.4	1	10.6	1	4.2	1	7.7
			12.5	1	7.9	1	5.3	1	6.1	1	9.7	1	9.5	1	4.8	1	11.3	1	3.8	1	3.1
LPN	5	1	309	1	111	1	17	1	144	1	61	1	147	1	30	1	97	1	18	1	1154
			25.9	1	9.3	1	1.4	1	12.1	1	5.1	1	12.3	1	2.5	1	8.1	1	1.5	1	9.5
			13.2	1	11.0	1	1.0	1	9.6	1	10.8	1	11.6	1	6.3	1	10.8	1	1.7	1	14.0
91B 91F 91G	6	1	801	1	300	1	326	1	234	1	159	1	241	1	121	1	297	1	92	1	3102
			25.6	1	9.7	1	10.5	1	7.5	1	5.1	1	7.8	1	3.9	1	9.6	1	3.0	1	24.7
			34.1	1	29.6	1	19.7	1	15.6	1	28.1	1	19.0	1	25.3	1	33.0	1	9.6	1	29.3
AIDE	7	1	207	1	66	1	6	1	43	1	25	1	76	1	25	1	75	1	22	1	816
			25.4	1	8.1	1	.7	1	5.3	1	3.1	1	9.3	1	3.1	1	9.2	1	2.7	1	6.5
			8.8	1	6.5	1	.4	1	2.9	1	4.4	1	6.0	1	5.2	1	8.3	1	2.1	1	14.6
WARD CLERK	8	1	16	1	76	1	17	1	40	1	1	1	131	1	32	1	60	1	35	1	408
			3.9	1	18.6	1	4.2	1	9.8	1	.2	1	32.1	1	7.8	1	14.7	1	4.3	1	3.2
			.7	1	7.5	1	1.0	1	2.7	1	.2	1	10.3	1	3.6	1	5.6	1	1	1	2.2
COLUMN TOTAL		2347	1012	1655		1499		1270		565		479		901		1058		170		1616	12582
		18.7	8.0	13.2		11.9		10.1		4.5		3.8		7.2		8.5		1.4		12.8	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 13

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PROV																		
CCOUNT		I																
ROW	PCT	INHEAD	NUR	HARDPAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	RDW					
CCL	PCT	ISE	ER					91G			RK	TOTAL						
PERIOD		1	11	21	31	41	51	61	71	81								
UNAVAILABLE	1	279	1	447	1	855	1	167	1	128	1	626	1	72	1	93	1	2667
	1	10.5	1	16.8	1	32.1	1	6.3	1	4.8	1	23.5	1	2.7	1	3.5	1	21.2
	1	25.1	1	37.3	1	22.6	1	17.3	1	10.7	1	20.2	1	8.8	1	22.8	1	
INDIRECT CARE	2	790	1	707	1	2307	1	496	1	757	1	1575	1	537	1	299	1	7568
	1	10.4	1	9.3	1	30.5	1	6.6	1	10.0	1	22.1	1	7.1	1	4.0	1	63.1
	1	71.2	1	58.9	1	60.9	1	51.3	1	63.4	1	56.0	1	65.8	1	73.3	1	
DIRECT CARE	3	41	1	46	1	624	1	303	1	309	1	901	1	207	1	16	1	2347
	1	1.7	1	2.0	1	26.6	1	12.9	1	13.2	1	34.1	1	8.8	1	.7	1	19.7
	1	3.7	1	3.6	1	16.5	1	31.4	1	25.9	1	25.8	1	25.4	1	3.9	1	
COLUMN		1110		1200		3786		966		1194		3102		816		408		12582
TOTAL		6.8		9.5		30.1		7.7		9.5		24.7		6.5		3.2		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 14

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

		PROV															
ROW	PCT I	IHEAD	NUR	WARDMAST	RN	91C	LPN	91B 91F		AIDE	WARD	CLE	RJW	TOTAL			
								ER	91G								RK
SERVICE		1	11	21	31	41	51	61	71	81							
CRITICAL CARE		1	234	144	534	480	378	384	240	1	1	1	2394				
		1	9.6	6.0	22.3	20.1	15.8	16.0	10.0	1	1	1	19.0				
		1	21.1	12.0	14.1	49.7	31.7	12.4	29.4	1	1	1					
MED SURG		2	192	240	720	474	240	364	192	1	204	1	3126				
		1	6.1	7.7	23.0	15.2	7.7	27.6	6.1	1	5.5	1	24.8				
		1	17.3	20.0	19.0	49.1	20.1	27.9	23.5	1	50.0	1					
PSYCHIATRY		3	240	192	854	1	1	846	54	1	1	1	2196				
		1	10.9	8.7	39.3	1	1	38.5	2.5	1	1	1	17.5				
		1	21.6	16.0	22.8	1	1	27.3	6.6	1	1	1					
OB LABOR DELIVER		4	192	192	624	12	336	528	48	1	204	1	2136				
		1	9.0	9.0	29.2	.6	15.7	24.7	2.2	1	9.6	1	17.0				
		1	17.3	16.0	16.5	1.2	26.1	17.0	5.9	1	50.0	1					
NRN NICU		5	252	240	504	1	1	240	174	1	1	1	1410				
		1	17.5	17.0	35.7	1	1	17.0	12.3	1	1	1	11.2				
		1	22.7	20.0	13.3	1	1	7.7	21.3	1	1	1					
PEDS PICU		6	1	192	540	1	240	240	108	1	1	1	1320				
		1	1	14.5	40.9	1	18.2	19.2	8.2	1	1	1	10.5				
		1	1	16.0	14.3	1	20.1	7.7	13.2	1	1	1					
COLUMN TOTAL			1110	1200	3786	966	1194	3102	816	408	12582	100.0					

NUMBER OF MISSING OBSERVATIONS = 0

Table 15

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

COUNT	ACT	ACT														TOTAL																																																																																					
		INDIRECT	PERSONAL	OFF UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFER	TRAVEL	ADMINIST	ENVIRON	WAIT	TIME																																																																																							
ROW PCT	COL PCT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CRITICAL CARE	1	739	1	111	1	198	1	270	1	174	1	331	1	80	1	157	1	154	1	36	1	144	1	2394																																																																													
	1	30.9	1	4.6	1	8.3	1	11.3	1	7.3	1	13.8	1	3.3	1	6.6	1	5.4	1	1.5	1	6.0	1	19.0																																																																													
	1	31.5	1	11.0	1	12.0	1	18.0	1	30.8	1	26.1	1	16.7	1	17.4	1	14.4	1	21.2	1	8.9	1																																																																														
MED SURG	2	575	1	310	1	307	1	375	1	143	1	469	1	118	1	341	1	247	1	36	1	205	1	3126																																																																													
	1	18.4	1	9.9	1	9.8	1	12.0	1	4.6	1	15.0	1	3.8	1	10.9	1	7.9	1	1.2	1	6.6	1	24.8																																																																													
	1	24.5	1	30.6	1	18.5	1	25.0	1	25.3	1	36.9	1	24.6	1	37.8	1	23.1	1	21.2	1	12.7	1																																																																														
PSYCHIATRY	3	486	1	115	1	454	1	267	1	24	1	151	1	167	1	111	1	130	1	16	1	25	1	2156																																																																													
	1	22.1	1	5.2	1	20.7	1	12.2	1	1.1	1	6.9	1	8.5	1	5.1	1	5.9	1	.7	1	11.6	1	17.5																																																																													
	1	20.7	1	11.4	1	27.4	1	17.8	1	4.2	1	11.9	1	39.0	1	12.3	1	12.2	1	9.4	1	15.6	1																																																																														
OB LABOR DELIVER	4	215	1	228	1	232	1	202	1	113	1	158	1	30	1	192	1	212	1	47	1	507	1	2136																																																																													
	1	10.1	1	10.7	1	10.9	1	9.5	1	5.3	1	7.4	1	1.4	1	9.0	1	9.9	1	2.2	1	23.7	1	17.0																																																																													
	1	9.2	1	22.5	1	14.0	1	13.5	1	20.0	1	12.4	1	6.3	1	21.3	1	19.9	1	27.6	1	31.4	1																																																																														
NBN NICU	5	128	1	102	1	318	1	198	1	92	1	51	1	34	1	44	1	191	1	19	1	243	1	1410																																																																													
	1	9.1	1	7.2	1	22.6	1	14.0	1	6.5	1	3.6	1	2.4	1	3.1	1	12.8	1	1.3	1	17.2	1	11.2																																																																													
	1	5.5	1	10.1	1	19.2	1	13.2	1	16.3	1	4.0	1	7.1	1	4.9	1	16.9	1	11.2	1	15.0	1																																																																														
PEDS PICU	6	204	1	146	1	146	1	187	1	19	1	110	1	30	1	56	1	144	1	16	1	262	1	1320																																																																													
	1	15.5	1	11.1	1	11.1	1	14.2	1	1.4	1	8.3	1	2.3	1	4.2	1	10.9	1	1.2	1	19.8	1	10.5																																																																													
	1	8.7	1	14.4	1	8.8	1	12.5	1	3.4	1	8.7	1	6.3	1	6.2	1	13.5	1	9.4	1	16.2	1																																																																														
COLUMN	2347	1012	1655	1499	565	1270	479	901	1068	170	1616	12582																																																																																									
TOTAL	18.7	6.0	13.2	11.9	4.5	10.1	3.8	7.2	9.5	1.4	12.8	100.0																																																																																									

NUMBER OF MISSING OBSERVATIONS = 0

Table 16

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE															ROW
COL	ICR	THICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	U	51	51	TOTAL
PERIOD	1	11	21	31	41	51	61	71	81	91	01	11	21	31	
UNAVAILABLE	1	305	1	617	1	569	1	460	1	420	1	292	1	2667	21.2
	1	11.6	1	23.1	1	21.3	1	17.2	1	15.7	1	10.9	1	21.2	
	1	12.9	1	19.7	1	25.9	1	21.5	1	29.8	1	22.1	1		
INDIRECT CARE	2	1346	1	1934	1	1141	1	1461	1	862	1	924	1	7568	50.1
	1	17.6	1	25.6	1	15.1	1	19.3	1	11.4	1	10.9	1	50.1	
	1	56.2	1	61.9	1	52.0	1	68.4	1	61.1	1	62.4	1		
DIRECT CARE	3	1	739	1	575	1	486	1	215	1	128	1	204	1	2347
	1	31.5	1	24.5	1	20.7	1	9.2	1	5.5	1	4.7	1	19.7	
	1	30.5	1	18.4	1	22.1	1	10.1	1	9.1	1	15.5	1		
COLUMN TOTAL		2594		3126		2196		2126		1410		1320		12582	100.0
		19.0		24.6		17.5		17.0		11.2		10.5		100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT ROW PCT COL PCT	SERVICE										ROW TOTAL
		ICRITICAL CARE	MED CARE	SURG CARE	PSYCHIAT RY	OB DELIVER	LABOR DELIVER	NBN	NICU	PEDS U	PIC	
		11	21	31	41	51	61					
UNAVAILABLE	1	209	1	547	1	288	1	409	1	291	1	1994
		10.5	1	27.4	1	14.4	1	20.5	1	14.6	1	25.3
		15.1	1	25.4	1	22.9	1	28.2	1	33.9	1	32.6
INDIRECT CARE	2	788	1	1224	1	734	1	935	1	519	1	4609
		17.1	1	26.6	1	15.9	1	20.3	1	11.3	1	58.5
		56.9	1	56.8	1	58.3	1	64.4	1	60.5	1	53.3
DIRECT CARE	3	389	1	383	1	238	1	108	1	46	1	1275
		30.5	1	30.0	1	18.7	1	8.5	1	3.8	1	16.2
		28.1	1	17.8	1	18.9	1	7.4	1	5.6	1	14.2
COLUMN TOTAL		1386	2154	1260	1260	1452	858	768	9.7	7878	100.0	
		17.6	27.3	16.0	16.0	18.4	10.9	9.7				

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT	1	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
COL PCT I CARE	1	11	21	31	41	51	61					
PERTOT	1	95	1	58	1	226	1	43	1	128	1	579
UNAVAILABLE	1	16.4	1	10.0	1	39.0	1	7.4	1	22.1	1	18.3
	1	13.2	1	9.1	1	33.0	1	10.9	1	32.3	1	8.6
INDIRECT CARE	2	385	1	445	1	257	1	283	1	221	1	1837
	1	21.0	1	24.2	1	14.0	1	15.4	1	12.0	1	58.0
	1	53.5	1	70.0	1	37.6	1	71.5	1	55.8	1	73.2
DIRECT CARE	3	240	1	133	1	201	1	70	1	47	1	752
	1	31.9	1	17.7	1	26.7	1	9.3	1	6.3	1	23.7
	1	33.3	1	20.9	1	29.4	1	17.7	1	11.9	1	18.2
COLUMN TOTAL	720	636	684	396	396	396	396	396	396	396	396	3168
	22.7	20.1	21.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT	I	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
ROW PCT	COL PCT	I CARE			RY	DELIVER						
		11	21	31	41	51	61					
PERTOT												
UNAVAILABLE	1	5	12	55	8	1	1	1	1	13	1	94
	1	5.3	12.8	58.5	8.5	1	1.1	1	1	13.8	1	6.1
	1	1.7	3.6	21.8	2.8	1	.6	1	1	6.0	1	
INDIRECT CARE	2	173	265	150	243	1	122	1	169	1	1	1122
	1	15.4	23.6	13.4	21.7	1	10.9	1	15.1	1	1	73.0
	1	60.1	78.9	59.5	84.4	1	78.2	1	78.2	1	1	
DIRECT CARE	3	110	59	47	37	1	33	1	34	1	1	320
	1	34.4	18.4	14.7	11.6	1	10.3	1	10.6	1	1	20.8
	1	38.2	17.6	18.7	12.8	1	21.2	1	15.7	1	1	
COLUMN TOTAL		288	336	252	288		156		216			1536
		18.8	21.9	16.4	18.8		10.2		14.1			100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT CARE

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	1499	19.8
MEDS SUPPLIES EQUIP	3	565	7.5
CHARTING CLERICAL	4	1270	16.8
CONFERENCES	5	477	6.3
TRAVEL TRANSPORT	6	901	11.9
ADMINISTRATION	7	1063	14.1
ENVIRONMENTAL	8	170	2.2
WAIT TIME	9	1615	21.4
		-----	-----
	TOTAL	7563	100.0
VALID CASES	7568	MISSING CASES	0

Table 22
General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY
INDIRECT CARE BY CARE PROVIDER

ACT	COUNT	ROW PCT	COL PCT	PROV										ROW TOTAL					
				1	11	21	31	41	51	61	71	81							
				HEAD NURSE	WNA	MAST RN	91C	LPN	91B 91F 91G	AIDE	WARD CLERK								
				ISE	ER														
COMMUNICATIVE	2	1	268	1	179	1	560	1	91	1	144	1	234	1	43	1	40	1	1439
		1	13.9	1	11.9	1	37.4	1	6.1	1	9.6	1	15.6	1	2.9	1	2.7	1	19.8
		1	26.3	1	25.3	1	24.3	1	18.3	1	19.0	1	14.0	1	8.0	1	13.4	1	
MEDS SUPPLIES EQ	3	1	30	1	30	1	204	1	55	1	61	1	159	1	25	1	1	1	565
		1	5.3	1	5.3	1	36.1	1	9.7	1	10.8	1	28.1	1	4.4	1	.2	1	7.5
		1	3.8	1	4.2	1	8.8	1	11.1	1	8.1	1	9.5	1	4.7	1	.3	1	
CHARTING CLERICAL	4	1	48	1	53	1	453	1	121	1	147	1	241	1	76	1	131	1	1270
		1	3.8	1	4.2	1	35.7	1	9.5	1	11.6	1	19.0	1	6.0	1	10.3	1	16.8
		1	6.1	1	7.5	1	19.6	1	24.4	1	19.4	1	14.4	1	14.2	1	43.8	1	
CONFERENCES	5	1	76	1	27	1	177	1	23	1	30	1	121	1	25	1		1	479
		1	15.9	1	5.6	1	37.0	1	4.8	1	6.3	1	25.3	1	5.2	1		1	6.3
		1	9.6	1	3.8	1	7.7	1	4.6	1	4.0	1	7.2	1	4.7	1		1	
TRAVEL TRANSPORT	6	1	37	1	94	1	167	1	102	1	97	1	297	1	75	1	32	1	901
		1	4.1	1	10.4	1	18.5	1	11.3	1	10.8	1	33.0	1	8.3	1	3.6	1	11.9
		1	4.7	1	13.3	1	7.2	1	20.6	1	12.8	1	17.7	1	14.0	1	10.7	1	
ADMINISTRATION	7	1	328	1	252	1	255	1	41	1	18	1	92	1	22	1	60	1	1068
		1	30.7	1	23.6	1	23.9	1	3.8	1	1.7	1	9.6	1	2.1	1	5.6	1	14.1
		1	41.5	1	35.6	1	11.1	1	8.3	1	2.4	1	5.5	1	4.1	1	20.1	1	
ENVIRONMENTAL	8	1		1	4	1	28	1	13	1	33	1	57	1	35	1		1	170
		1		1	2.4	1	16.5	1	7.6	1	19.4	1	33.5	1	20.6	1		1	2.2
		1		1	.6	1	1.2	1	2.6	1	4.4	1	3.4	1	6.5	1		1	
WAIT TIME	9	1	63	1	68	1	463	1	50	1	227	1	474	1	236	1	35	1	1616
		1	3.9	1	4.2	1	28.7	1	3.1	1	14.0	1	29.3	1	14.6	1	2.2	1	21.4
		1	8.0	1	9.6	1	20.1	1	10.1	1	30.0	1	29.3	1	43.9	1	11.7	1	
COLUMN TOTAL			790		767		2307		496		757		1675		537		299		7568
			10.4		9.3		30.5		6.6		10.0		22.1		7.1		4.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 23
General Wood

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

		SERVICE													
		COUNT	1	CRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NON	NICU	PEDS	PIC		RDM
		ROW	PCI	CARE			RY		DELIVER						TOTAL
				1	11	21	31	41	51	61					
ALT															
	2	1	270	1	375	1	257	1	202	1	198	1	187	1	1499
COMMUNICATIVE		1	18.0	1	25.0	1	17.6	1	13.5	1	13.2	1	12.5	1	19.8
		1	20.1	1	19.4	1	23.4	1	13.8	1	23.0	1	22.7	1	
	3	1	174	1	143	1	24	1	113	1	92	1	19	1	565
MEDS SUPPLIES	EW	1	30.6	1	25.3	1	4.2	1	20.0	1	16.3	1	3.4	1	7.5
		1	12.9	1	7.4	1	2.1	1	7.7	1	10.7	1	2.3	1	
	4	1	331	1	469	1	151	1	154	1	51	1	110	1	1270
CHARTING CLERICAL		1	26.1	1	36.9	1	11.9	1	12.4	1	4.0	1	9.7	1	16.8
		1	24.6	1	24.3	1	13.2	1	10.6	1	5.9	1	13.3	1	
	5	1	80	1	118	1	157	1	30	1	34	1	30	1	479
CONFERENCES		1	16.7	1	24.6	1	39.0	1	6.3	1	7.1	1	6.3	1	6.3
		1	5.9	1	6.1	1	16.4	1	2.1	1	5.9	1	3.6	1	
	6	1	157	1	341	1	111	1	192	1	44	1	56	1	901
TRAVEL TRANSPORT		1	17.4	1	37.6	1	12.3	1	21.3	1	4.9	1	6.2	1	11.9
		1	11.7	1	17.6	1	9.7	1	13.1	1	5.1	1	5.8	1	
	7	1	154	1	247	1	150	1	212	1	181	1	144	1	1068
ADMINISTRATION		1	14.4	1	23.1	1	12.2	1	19.9	1	16.9	1	13.5	1	14.1
		1	11.4	1	12.8	1	11.4	1	14.5	1	21.0	1	17.5	1	
	8	1	36	1	36	1	16	1	47	1	19	1	16	1	170
ENVIRONMENTAL		1	21.2	1	21.2	1	9.4	1	27.6	1	11.2	1	9.4	1	2.2
		1	2.7	1	1.9	1	1.4	1	3.2	1	2.2	1	1.9	1	
	9	1	144	1	205	1	255	1	507	1	243	1	262	1	1616
WAIT TIME		1	8.9	1	12.7	1	15.8	1	31.4	1	15.0	1	15.2	1	21.4
		1	10.7	1	10.6	1	22.3	1	34.7	1	28.2	1	31.8	1	
	COLUMN TOTAL		1346		1934		1141		1461		862		824		7568
			17.8		25.6		15.1		19.3		11.4		10.9		100.0

NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 20

FORT CAMPBELL COMMUNITY HOSPITAL
FORT CAMPBELL, KENTUCKY

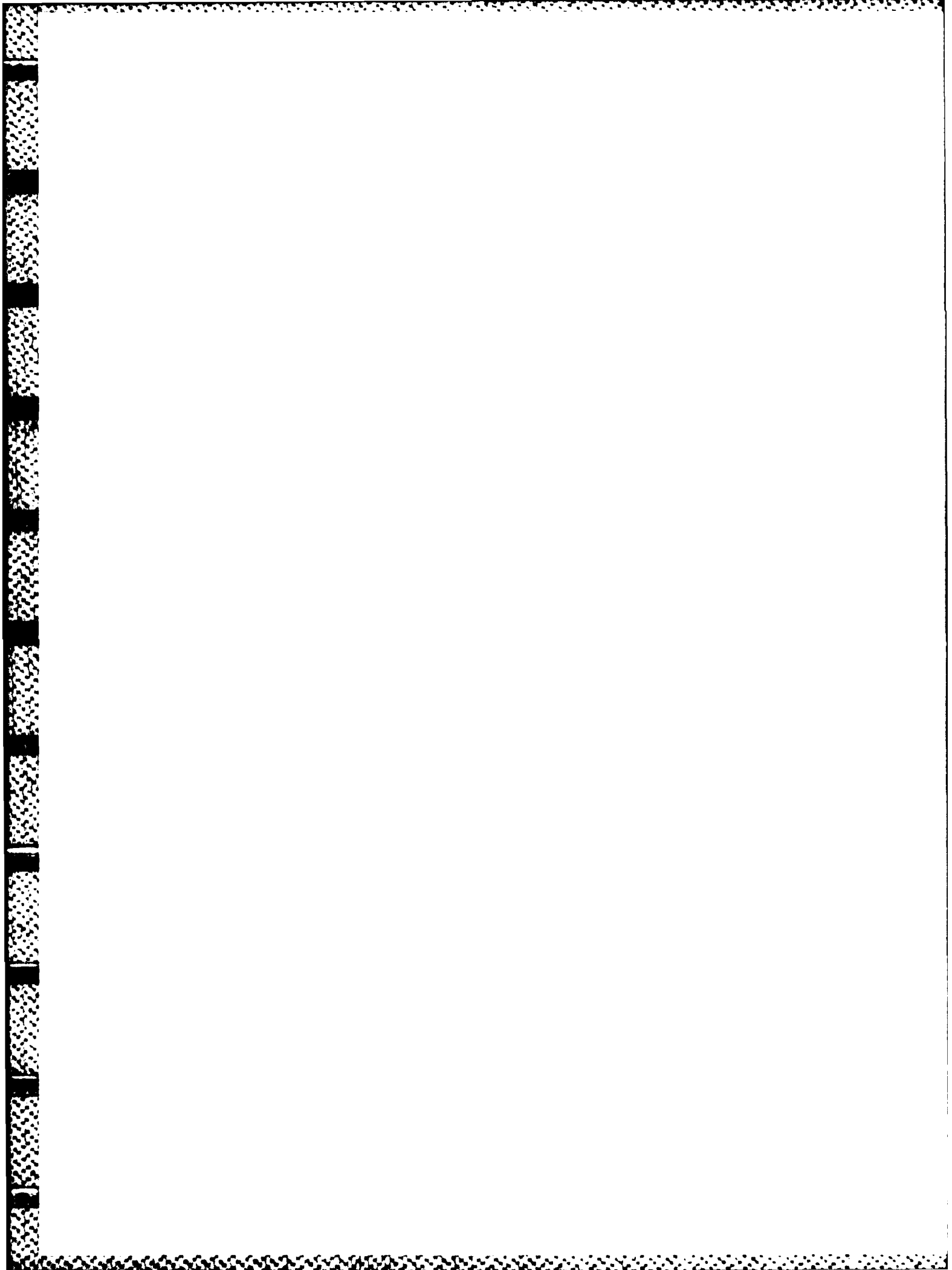


Table 1

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

MO

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	4830	39.3	39.3	39.3
APRIL	4	7452	60.7	60.7	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 2

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

WEEKDAYS OF DATA COLLECTIONS

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	504	4.1	4.1	4.1
MONDAY	2	1506	12.3	12.3	16.4
TUESDAY	3	2832	23.1	23.1	39.4
WEDNESDAY	4	2256	18.4	18.4	57.8
THURSDAY	5	2580	21.0	21.0	78.8
FRIDAY	6	1752	14.3	14.3	93.1
SATURDAY	7	852	6.9	6.9	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 3

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	8136	66.2	66.2	66.2
EVENING	2	2670	21.7	21.7	88.0
NIGHT	3	1476	12.0	12.0	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 4

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	888	7.2	7.2	7.2
SURG	2	1104	9.0	9.0	16.2
ORTHOPEDIC	4	324	2.6	2.6	18.9
OB	5	1776	14.5	14.5	33.3
NEWBORN	8	2328	19.0	19.0	52.3
PEDS	9	1962	16.0	16.0	68.2
ICU COMBO	13	2544	20.7	20.7	89.0
PSYCHIATRY	16	1356	11.0	11.0	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 5

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	2544	20.7	20.7	20.7
MED SURG	2.00	2316	18.9	18.9	39.6
PSYCHIATRY	3.00	1356	11.0	11.0	50.6
OB LABOR DELIVERY	4.00	1776	14.5	14.5	65.1
NBN NICU	5.00	2328	19.0	19.0	84.0
PEDS PICU	6.00	1962	16.0	16.0	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 8

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	3076	25.0	25.0	25.0
PERSONAL	0	1096	8.9	8.9	34.0
OFF UNIT ACTV	1	640	5.2	5.2	39.2
COMMUNICATIVE	2	1266	10.3	10.3	49.5
MEDS SUPPLIES EQUIP	3	398	3.2	3.2	52.7
CHARTING CLERICAL	4	1301	10.6	10.6	63.3
CONFERENCES	5	330	2.7	2.7	66.0
TRAVEL TRANSPORT	6	1204	9.8	9.8	75.8
ADMINISTRATION	7	1189	9.7	9.7	85.5
ENVIRONMENTAL	8	103	.8	.8	86.3
WAIT TIME	9	1679	13.7	13.7	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 10

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-1	48	.4	.4	.4
HEAD NURSE	1	954	7.8	7.8	8.2
WARDMASTER	2	1116	9.1	9.1	17.2
RN	3	3540	28.8	28.8	46.1
91C	4	630	5.1	5.1	51.2
LPN	5	1866	15.2	15.2	66.4
91B 91F 91G	6	1842	15.0	15.0	81.4
AIDE	7	1614	13.1	13.1	94.5
WARD CLERK	8	672	5.5	5.5	100.0
		-----	-----	-----	
	TOTAL	12282	100.0	100.0	
VALID CASES	12282	MISSING CASES	0		

Table 12

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ROW PCT	COL PCT	ACT	COUNT										TIME				ROW TOTAL							
				INDIRECT	C	PERSONAL	OFF UNIT	COMMUNIC	MEDS SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	MAINT	IE									
PROV	1	1	1	-11	01	11	21	31	41	51	61	71	81	91											
HEAD NURSE	1	1	150	1	59	1	63	1	208	1	15	1	142	1	36	1	56	1	197	1	3	1	25	1	954
	1	1	15.7	1	6.2	1	6.6	1	21.8	1	1.6	1	14.9	1	3.8	1	5.9	1	20.6	1	.3	1	2.6	1	7.8
	1	1	4.9	1	5.4	1	9.9	1	16.5	1	3.8	1	11.1	1	11.0	1	4.7	1	16.6	1	2.9	1	1.5	1	
WARDMASTER	2	1	91	1	92	1	177	1	144	1	40	1	35	1	29	1	116	1	314	1	6	1	72	1	1116
	1	1	8.2	1	8.2	1	15.9	1	12.9	1	3.6	1	3.1	1	2.6	1	10.4	1	28.1	1	.5	1	6.5	1	9.1
	1	1	3.0	1	8.4	1	27.7	1	11.4	1	10.1	1	2.7	1	8.9	1	9.6	1	26.4	1	5.8	1	4.3	1	
RN	3	1	863	1	232	1	97	1	446	1	142	1	598	1	136	1	303	1	225	1	17	1	481	1	3540
	1	1	24.4	1	6.6	1	2.7	1	12.6	1	4.0	1	16.9	1	3.8	1	9.6	1	6.4	1	.5	1	13.6	1	28.9
	1	1	28.2	1	21.2	1	15.2	1	35.4	1	35.7	1	46.6	1	41.7	1	25.2	1	18.9	1	16.5	1	28.7	1	
91C	4	1	182	1	82	1	38	1	37	1	15	1	26	1	10	1	75	1	38	1	1	1	126	1	630
	1	1	28.9	1	13.0	1	6.0	1	5.9	1	2.4	1	4.1	1	1.6	1	11.9	1	6.0	1	.2	1	20.0	1	5.1
	1	1	5.9	1	7.5	1	6.0	1	2.9	1	3.8	1	2.0	1	3.1	1	6.2	1	3.2	1	1.0	1	7.5	1	
LPN	5	1	584	1	204	1	38	1	148	1	76	1	171	1	43	1	200	1	81	1	19	1	302	1	1866
	1	1	31.3	1	10.9	1	2.0	1	7.9	1	4.1	1	9.2	1	2.3	1	13.7	1	4.3	1	1.0	1	16.2	1	15.3
	1	1	19.1	1	18.7	1	6.0	1	11.7	1	19.1	1	13.3	1	13.2	1	16.6	1	6.8	1	18.4	1	18.0	1	
91B 91F 91G	6	1	709	1	201	1	109	1	91	1	47	1	67	1	37	1	184	1	72	1	25	1	300	1	1842
	1	1	38.5	1	10.9	1	5.9	1	4.9	1	2.6	1	3.6	1	2.0	1	13.0	1	3.9	1	1.4	1	16.3	1	15.1
	1	1	23.1	1	18.4	1	17.1	1	7.2	1	11.6	1	5.2	1	11.3	1	15.3	1	6.1	1	24.3	1	17.5	1	
AIDE	7	1	463	1	150	1	56	1	118	1	54	1	112	1	34	1	209	1	68	1	29	1	321	1	1614
	1	1	28.7	1	9.3	1	3.5	1	7.3	1	3.3	1	6.9	1	2.1	1	12.9	1	4.2	1	1.8	1	19.9	1	13.2
	1	1	15.1	1	13.7	1	8.8	1	9.4	1	13.6	1	8.7	1	10.4	1	17.4	1	5.7	1	28.2	1	19.2	1	
WARD CLERK	8	1	22	1	72	1	60	1	69	1	9	1	133	1	1	1	61	1	194	1	3	1	48	1	672
	1	1	3.3	1	10.7	1	8.9	1	10.3	1	1.3	1	19.8	1	.1	1	9.1	1	28.9	1	.4	1	7.1	1	5.5
	1	1	.7	1	6.6	1	9.4	1	5.5	1	2.3	1	10.4	1	.3	1	5.1	1	16.3	1	2.9	1	2.9	1	
COLUMN TOTAL			3064		1092		638		1261		398		1284		326		1204		1199		103		1675		12234
			25.0		8.9		5.2		10.3		3.3		10.5		2.7		9.8		9.7		.8		13.7		100.0

NUMBER OF MISSING OBSERVATIONS = 48

Table 13

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

		PROV																			
CGUNT		I																			
ROW	PCT	I	HEAD	NUR	WARDMAST	RN	91C	LPN	91B	91F	AIDE	HARD	CLE	ROW	TOTAL						
COL	PCT	ISE	ER	21	31	41	51	61	71	81											
PERIOD																					
UNAVAILABLE		1	1	122	1	269	1	329	1	120	1	242	1	310	1	206	1	132	1	1730	
		1	7.1	1	15.5	1	19.0	1	6.9	1	14.0	1	17.9	1	11.9	1	7.6	1	14.1		
		1	12.8	1	24.1	1	9.3	1	19.0	1	13.0	1	16.8	1	12.8	1	19.6	1			
INDIRECT CARE		2	1	682	1	756	1	2348	1	328	1	1040	1	823	1	945	1	518	1	7440	
		1	9.2	1	10.2	1	31.6	1	4.4	1	14.0	1	11.1	1	12.7	1	7.0	1	65.8		
		1	71.5	1	67.7	1	66.3	1	52.1	1	55.7	1	44.7	1	58.6	1	77.1	1			
DIRECT CARE		3	1	150	1	91	1	863	1	182	1	584	1	709	1	463	1	22	1	3064	
		1	4.9	1	3.0	1	28.2	1	5.9	1	19.1	1	23.1	1	15.1	1	.7	1	25.0		
		1	15.7	1	8.2	1	24.4	1	28.9	1	31.3	1	38.5	1	28.7	1	3.3	1			
COLUMN		954	1116	3540	630	1866	1942	1614	672	12234											
TOTAL		7.6	9.1	28.9	5.1	15.3	15.1	13.2	5.5	100.0											

NUMBER OF MISSING OBSERVATIONS = 48

Table 14

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

PROV																	
COUNT	ROW	PCT	I	HEAD	NUR	WARD	MAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	ROW	
COL	PCT	ISE	1	11	21	31	41	51	61	71	81	TOTAL					
SERVICE																	
CRITICAL CARE	1	1	240	1	48	1	816	1	582	1	240	1	378	1	240	1	2544
			9.4	1	1.9	1	32.1	1	22.9	1	9.4	1	14.9	1	9.4	1	20.8
			25.2	1	4.3	1	23.1	1	92.4	1	12.9	1	20.5	1	35.7	1	
MED SURG	2	1	186	1	234	1	528	1		1	516	1	192	1	468	1	2268
			8.2	1	10.3	1	23.3	1		1	22.8	1	9.5	1	20.6	1	19.5
			19.5	1	21.0	1	14.9	1		1	27.7	1	10.4	1	29.0	1	
PSYCHIATRY	3	1		1	144	1	432	1		1	6	1	540	1	234	1	1356
				1	10.6	1	31.9	1		1	.4	1	39.6	1	17.3	1	11.1
				1	12.9	1	12.2	1		1	.3	1	29.3	1	14.5	1	
OB LABOR DELIVER	4	1	240	1	246	1	588	1		6	150	1	156	1	342	1	1776
			13.5	1	13.9	1	33.1	1		.3	8.4	1	9.8	1	19.3	1	14.5
			25.2	1	22.0	1	16.6	1		1.0	8.0	1	8.5	1	21.2	1	
NEW NICU	5	1	192	1	210	1	648	1		42	522	1	240	1	330	1	2328
			8.2	1	9.0	1	27.8	1		1.8	22.4	1	10.3	1	14.2	1	19.0
			20.1	1	18.8	1	18.3	1		6.7	28.0	1	13.0	1	20.4	1	
PEDIATRIC	6	1	96	1	234	1	528	1		1	432	1	336	1	240	1	1962
			4.9	1	11.9	1	26.9	1		1	22.0	1	17.1	1	12.2	1	15.0
			10.1	1	21.0	1	14.9	1		1	23.2	1	18.2	1	14.9	1	
COLUMN TOTAL		954	1116	3540	630	1866	1942	1614	672	12234							
		7.6	9.1	28.9	5.1	15.3	15.1	13.2	5.5	100.0							

NUMBER OF MISSING OBSERVATIONS = 48

Campbell

SERVICE BY ACTIVITY PERFORMED

NUMBER OF MISSING OBSERVATIONS = 0

Table 16

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT ROW PCT COL PCT	SERVICE										ROW TOTAL
		ICRITICAL	MED	SURG	PSYCHIAT	UB	LABOR	NBN	NICU	PEDS	PIC	
		1	11	21	31	41	51	61				
UNAVAILABLE	1	315	1	374	1	154	1	282	1	284	1	1736
		18.1	1	21.5	1	8.9	1	16.2	1	16.4	1	14.1
		12.4	1	16.1	1	11.4	1	15.9	1	12.2	1	15.7
INDIRECT CARE	2	1669	1	1532	1	656	1	1152	1	1177	1	7470
		22.3	1	20.5	1	8.8	1	15.4	1	15.6	1	60.8
		65.6	1	66.1	1	48.4	1	64.9	1	50.6	1	65.4
DIRECT CARE	3	560	1	410	1	546	1	342	1	867	1	3076
		18.2	1	13.3	1	17.8	1	11.1	1	28.2	1	25.0
		22.0	1	17.7	1	40.3	1	19.3	1	37.2	1	17.9
COLUMN		2544	2316	1356	1776	2328	1962					12282
TOTAL		20.7	18.9	11.0	14.5	19.0	15.0					100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT	1	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
COL	PC	ICARE			RY	DELIVER						
PRTOT	1	11	21	31	41	51	61					
UNAVAILABLE	1	227	1	284	1	108	1	244	1	245	1	255
	1	16.7	1	20.8	1	7.9	1	17.9	1	18.0	1	18.7
	1	13.5	1	17.5	1	14.8	1	20.3	1	15.7	1	19.0
INDIRECT CARE	2	1129	1	1072	1	334	1	721	1	777	1	867
	1	23.0	1	21.9	1	6.8	1	14.7	1	15.9	1	17.7
	1	67.2	1	66.2	1	45.6	1	60.1	1	49.8	1	64.5
DIRECT CARE	3	324	1	264	1	290	1	235	1	538	1	222
	1	17.3	1	14.1	1	15.5	1	12.5	1	28.7	1	11.9
	1	19.3	1	16.3	1	39.6	1	19.6	1	34.5	1	16.5
COLUMN	1680	1620	732	1260	1560	1344						8136
TOTAL	20.6	19.9	9.0	14.7	19.2	16.5						100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE														
COUNT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	ROW			
COL	ICARE			RY	DELIVER				U		TOTAL			
	1	1	21	31	41	51	61							
PERIOD	1	75	1	76	1	46	1	31	1	22	1	52	1	302
UNAVAILABLE	1	24.8	1	25.2	1	15.2	1	10.3	1	7.3	1	17.2	1	11.3
	1	13.0	1	16.2	1	10.6	1	9.2	1	4.6	1	13.8	1	
	2	354	1	291	1	152	1	246	1	246	1	253	1	1542
INDIRECT CARE	1	23.0	1	18.9	1	9.9	1	16.0	1	16.0	1	16.4	1	57.8
	1	61.5	1	62.2	1	35.2	1	73.2	1	51.3	1	66.9	1	
	3	147	1	101	1	234	1	59	1	212	1	73	1	826
DIRECT CARE	1	17.8	1	12.2	1	28.3	1	7.1	1	25.7	1	8.8	1	30.9
	1	25.5	1	21.6	1	54.2	1	17.6	1	44.2	1	19.3	1	
COLUMN	576	468	432	336	480	378								2670
TOTAL	21.6	17.5	16.2	12.6	18.0	14.2								100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE													ROW TOTAL
COUNT ROW PCT COL PCT	I	ICRITICAL CARE	MED	SURG	PSYCHIAT RY	OB	LABOR DELIVER	NBN	NICU	PEDS U	PIC		
PERIOD	1	11	21	31	41	51	61						
UNAVAILABLE	1	13	1	14	1	1	7	1	17	1	20	71	
	I	18.3	I	19.7	I	1	9.9	I	23.9	I	28.2	4.8	
	I	4.5	I	6.1	I	1	2.9	I	5.9	I	8.3	I	
INDIRECT CARE	2	186	1	169	1	170	1	185	1	154	1	1028	
	I	18.1	I	16.4	I	16.5	I	18.0	I	15.0	I	69.6	
	I	64.6	I	74.1	I	88.5	I	77.1	I	53.5	I	68.3	
DIRECT CARE	3	89	1	45	1	22	1	48	1	117	1	377	
	I	23.6	I	11.9	I	5.8	I	12.7	I	31.0	I	25.5	
	I	30.9	I	19.7	I	11.5	I	20.0	I	40.6	I	23.3	
COLUMN TOTAL	288	228	192	240	288	240	288	240	288	240	240	1476	
	19.5	15.4	13.0	16.3	19.5	16.3	19.5	16.3	19.5	16.3	16.3	100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT CARE

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	1265	16.9
MEDS SUPPLIES EQUIP	3	393	5.3
CHARTING CLERICAL	4	1301	17.4
CONFERENCES	5	330	4.4
TRAVEL TRANSPORT	6	1204	16.1
ADMINISTRATION	7	1189	15.9
ENVIRONMENTAL	8	103	1.4
WAIT TIME	9	1679	22.5
		-----	-----
	TOTAL	7470	100.0
VALID CASES	7470	MISSING CASES	0

Table 22
Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

ACT	COUNT	ROW	PCT	PROV										ROW	TOTAL				
				HEAD	NUR	WARD	MAST	RN	91C	LPN	91B	91F	AIDE			WARD	CLE		
				ISE	ER	ER	21	31	41	51	91G	61	71			81			
				COL	PCT	ISE	ER	ER	21	31	41	51	91G			61	71	81	
COMMUNICATIVE	2	1	208	1	144	1	446	1	37	1	148	1	91	1	118	1	69	1	126
	1	16.5	1	11.4	1	35.4	1	2.9	1	11.7	1	7.2	1	9.4	1	5.5	1	16.9	
	1	30.5	1	19.0	1	19.0	1	11.3	1	14.2	1	11.1	1	12.5	1	13.3	1		
MEDS SUPPLIES EQ	3	1	15	1	40	1	142	1	15	1	76	1	47	1	54	1	9	1	398
	1	3.8	1	10.1	1	35.7	1	3.8	1	19.1	1	11.8	1	13.6	1	2.3	1	5.3	
	1	2.2	1	5.3	1	6.0	1	4.6	1	7.3	1	5.7	1	5.7	1	1.7	1		
CHARTING CLERICAL	4	1	142	1	35	1	598	1	26	1	171	1	67	1	112	1	133	1	1284
	1	11.1	1	2.7	1	46.6	1	2.0	1	13.3	1	5.2	1	8.7	1	10.4	1	17.3	
	1	20.8	1	4.6	1	25.5	1	7.9	1	16.4	1	8.1	1	11.9	1	25.7	1		
CONFERENCES	5	1	36	1	29	1	136	1	10	1	43	1	37	1	34	1	1	1	326
	1	11.0	1	8.9	1	41.7	1	3.1	1	13.2	1	11.3	1	10.4	1	.3	1	6.6	
	1	5.3	1	3.8	1	5.8	1	3.0	1	4.1	1	4.5	1	3.6	1	.2	1		
TRAVEL TRANSPORT	6	1	56	1	116	1	303	1	75	1	200	1	184	1	209	1	61	1	1204
	1	4.7	1	9.6	1	25.2	1	6.2	1	16.6	1	15.3	1	17.4	1	5.1	1	16.2	
	1	8.2	1	15.3	1	12.9	1	22.9	1	19.2	1	22.4	1	22.1	1	11.8	1		
ADMINISTRATION	7	1	197	1	314	1	225	1	34	1	81	1	72	1	68	1	194	1	1189
	1	16.6	1	26.4	1	18.9	1	3.2	1	6.8	1	6.1	1	5.7	1	16.3	1	16.0	
	1	28.9	1	41.5	1	9.6	1	11.6	1	7.4	1	8.7	1	7.2	1	37.5	1		
ENVIRONMENTAL	8	1	3	1	6	1	17	1	1	1	19	1	25	1	29	1	3	1	103
	1	2.9	1	5.8	1	16.5	1	1.0	1	18.4	1	24.3	1	28.2	1	2.9	1	1.4	
	1	.4	1	.8	1	.7	1	.3	1	1.8	1	3.0	1	3.1	1	.6	1		
WAIT TIME	9	1	25	1	72	1	491	1	126	1	302	1	300	1	321	1	48	1	1675
	1	1.5	1	4.3	1	28.7	1	7.5	1	18.0	1	17.9	1	19.2	1	2.9	1	22.5	
	1	3.7	1	9.5	1	20.5	1	38.4	1	29.0	1	35.5	1	34.0	1	9.3	1		
COLUMN TOTAL			682		756		2348		328		1040		323		945		518		7440
			9.2		10.2		31.6		4.4		14.0		11.1		12.7		7.0		100.0

NUMBER OF MISSING OBSERVATIONS = 30

Table 23
Campbell

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

ACT	COUNT ROW PCT COL PCT	SERVICE											ROW TOTAL
		1	11	21	31	41	51	61	1	11	21	31	
		CRITICAL CARE	MED	SURG	PSYCHIATRY	OB DELIVER	LABOR	NON	NICU	PEDS	PIC		
COMMUNICATIVE	2	232	325	117	204	210	178					1266	
		18.3	25.7	9.2	16.1	16.6	14.1					16.9	
		13.9	21.2	17.8	17.7	17.8	13.9						
MEOS SUPPLIES EQ	3	68	145	12	55	80	38					398	
		17.1	36.4	3.0	13.8	20.1	9.5					5.3	
		4.1	9.5	1.8	4.8	6.8	3.0						
CHARTING CLERICAL	4	198	310	101	257	271	184					1301	
		15.2	23.8	7.8	19.8	20.8	12.6					17.4	
		11.9	20.2	15.4	22.3	23.0	12.8						
CONFERENCES	5	58	92	44	45	39	52					330	
		17.6	27.9	13.3	13.6	11.8	15.8					6.4	
		3.5	6.0	6.7	3.9	3.3	4.0						
TRAVEL TRANSPORT	6	286	267	39	164	188	200					1204	
		23.8	22.2	6.2	13.6	15.6	16.6					16.1	
		17.1	17.4	15.1	14.2	16.0	15.6						
ADMINISTRATION	7	394	168	98	137	186	206					1189	
		33.1	14.1	8.2	11.5	15.6	17.3					15.9	
		23.6	11.0	14.9	11.9	15.8	16.0						
ENVIRONMENTAL	8	9	20	9	16	32	17					103	
		8.7	19.4	8.7	15.5	31.1	15.5					1.4	
		.5	1.3	1.4	1.4	2.7	1.3						
WAIT TIME	9	424	205	176	274	171	429					1679	
		25.3	12.2	10.5	16.3	10.2	25.6					22.5	
		25.4	13.4	26.8	23.8	14.5	33.4						
COLUMN TOTAL		1669	1532	656	1152	1177	1284					7470	
		22.3	20.5	8.8	15.4	15.8	17.2					100.0	

NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 21
FITZSIMONS ARMY MEDICAL CENTER
DENVER, COLORADO

Table 1
FAMC
TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
FEBRUARY	2	18	.1	.1	.1
MARCH	3	19692	92.6	92.6	92.6
APRIL	4	1566	7.4	7.4	100.0
		-----	-----	-----	
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 2

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	1362	6.4	6.4	6.4
MONDAY	2	3294	15.5	15.5	21.9
TUESDAY	3	4434	20.8	20.8	42.7
WEDNESDAY	4	4320	20.3	20.3	63.0
THURSDAY	5	4800	22.6	22.6	85.6
FRIDAY	6	2148	10.1	10.1	95.7
SATURDAY	7	918	4.3	4.3	100.0
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 3

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	13512	63.5	63.5	63.5
EVENING	2	4968	23.4	23.4	86.9
NIGHT	3	2796	13.1	13.1	100.0
		-----	-----	-----	
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 4

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	1890	8.9	8.9	8.9
SURG	2	1146	5.4	5.4	14.3
ORTHOPEDIC	4	144	.7	.7	14.9
OB	5	1566	7.4	7.4	22.3
LABOR & DELIVERY	6	1752	8.2	8.2	30.5
NEWBORN	8	2220	10.4	10.4	41.0
PEDS	9	3978	18.7	18.7	59.7
SICU	10	1440	6.8	6.8	66.4
MICU	11	1038	4.9	4.9	71.3
CCU	12	432	2.0	2.0	73.4
NICU	14	2316	10.9	10.9	84.2
PSYCHIATRY	16	3354	15.8	15.8	100.0
		-----	-----	-----	
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 5

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	2910	13.7	13.7	13.7
MED SURG	2.00	3180	14.9	14.9	28.6
PSYCHIATRY	3.00	3354	15.8	15.8	44.4
OB LABOR DELIVERY	4.00	3318	15.6	15.6	60.0
NBN NICU	5.00	4536	21.3	21.3	81.3
PEDS PICU	6.00	3978	18.7	18.7	100.0
		-----	-----	-----	
	TOTAL	21275	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 8

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	5302	24.9	24.9	24.9
PERSONAL	0	1913	9.0	9.0	33.9
OFF UNIT ACTV	1	1266	6.0	6.0	39.9
COMMUNICATIVE	2	2083	9.8	9.8	49.7
MEDS SUPPLIES EQUIP	3	1165	5.5	5.5	55.1
CHARTING CLERICAL	4	1966	9.2	9.2	64.4
CONFERENCES	5	1004	4.7	4.7	69.1
TRAVEL TRANSPORT	6	2981	14.0	14.0	83.1
ADMINISTRATION	7	2327	10.9	10.9	94.0
ENVIRONMENTAL	8	368	1.7	1.7	95.8
WAIT TIME	9	901	4.2	4.2	100.0
		-----	-----	-----	
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 10

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	1506	7.1	7.1	7.1
WARDMASTER	2	1524	7.2	7.2	14.2
RN	3	7962	37.4	37.4	51.7
91C	4	1218	5.7	5.7	57.4
LPN	5	2622	12.3	12.3	69.7
91B 91F 91G	6	3978	18.7	18.7	88.4
AIDE	7	1194	5.6	5.6	94.0
WARD CLERK	8	1272	6.0	6.0	100.0
		-----	-----	-----	
	TOTAL	21276	100.0	100.0	
VALID CASES	21276	MISSING CASES	0		

Table 12

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ROW PCT	COL PCT	I	ACT	ACT											TOTAL				
					1	2	3	4	5	6	7	8	9	10	11					
PROV	HEAD NURSE	WARDMASTER	RN	91C	LPN	91B 91F 91G	AIDE	WARD CLERK	COLUMN TOTAL	5302	1913	1266	2083	1165	1966	1004	2981	2327	368	21276
1	129	135	205	160	1	111	114	1	69	1	508	1	6	1	1506	7.1	1	1	1	1
1	8.6	9.0	13.6	10.6	1	3.2	7.4	1	5.9	1	33.7	1	.4	1	7.2	1	1	1	1	1
1	2.4	7.1	16.2	7.7	1	4.1	5.6	1	3.0	1	21.8	1	1.6	1	1.6	1	1	1	1	1
2	86	122	258	104	1	125	8	1	246	1	497	1	18	1	1524	7.2	1	1	1	1
1	5.6	8.0	16.9	6.8	1	8.2	.5	1	16.1	1	32.6	1	1.2	1	7.2	1	1	1	1	1
1	1.6	6.4	20.4	5.0	1	10.7	.4	1	8.3	1	21.4	1	4.9	1	1.2	1	1	1	1	1
3	2402	609	294	962	1	535	1043	1	388	1	975	1	63	1	7962	37.4	1	1	1	1
1	30.2	7.6	3.7	12.1	1	6.7	13.1	1	4.9	1	11.0	1	.8	1	37.4	1	1	1	1	1
1	45.3	31.8	23.2	46.2	1	45.9	53.1	1	38.6	1	29.4	1	17.1	1	17.1	1	1	1	1	1
4	380	148	57	78	1	133	69	1	28	1	176	1	31	1	1219	5.7	1	1	1	1
1	31.2	12.2	4.7	6.4	1	10.9	5.7	1	2.3	1	14.4	1	2.5	1	5.7	1	1	1	1	1
1	7.2	7.7	4.5	3.7	1	11.4	3.5	1	2.8	1	5.9	1	8.4	1	8.4	1	1	1	1	1
5	781	255	92	238	1	165	198	1	74	1	404	1	121	1	2622	12.3	1	1	1	1
1	29.8	9.7	3.5	9.1	1	6.3	7.6	1	2.8	1	15.4	1	4.6	1	5.2	1	1	1	1	1
1	14.7	13.3	7.3	11.4	1	14.2	10.1	1	7.4	1	13.6	1	32.9	1	15.1	1	1	1	1	1
6	1167	394	224	222	1	100	159	1	293	1	742	1	78	1	3978	18.7	1	1	1	1
1	29.3	9.9	5.6	5.6	1	2.5	4.0	1	7.4	1	18.7	1	2.0	1	9.5	1	1	1	1	1
1	22.0	20.6	17.7	10.7	1	8.6	8.1	1	29.2	1	24.9	1	21.2	1	41.7	1	1	1	1	1
7	320	102	17	120	1	46	94	1	67	1	280	1	45	1	1194	5.6	1	1	1	1
1	26.8	8.5	1.4	10.1	1	3.9	7.9	1	5.6	1	23.5	1	3.8	1	5.1	1	1	1	1	1
1	6.0	5.3	1.3	5.8	1	3.9	4.8	1	6.7	1	9.4	1	12.2	1	6.8	1	1	1	1	1
8	37	148	119	159	1	13	284	1	169	1	262	1	6	1	1272	6.0	1	1	1	1
1	2.9	11.6	9.4	15.6	1	1.0	22.3	1	13.3	1	20.6	1	.5	1	2.8	1	1	1	1	1
1	.7	7.7	9.4	9.6	1	1.1	14.4	1	5.7	1	11.3	1	1.6	1	3.9	1	1	1	1	1
COLUMN TOTAL	5302	1913	1266	2083	1165	1966	1004	2981	2327	368	21276	901	4.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NUMBER OF MISSING OBSERVATIONS = 0

TABLE 13
FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PERIOD	COUNT ROW PCT COL PCT	PROV										RJW TOTAL	
		HEAD	NUR	WARDMAST	RN	91C	LPN	91B 91C	91F	AIDE	WARD RK		CLE
		1SE	ER										
		11	21	31	41	51	61	71	81				
UNAVAILABLE	1	340	380	903	205	347	518	119	267			3179	
		10.7	12.0	28.4	6.4	10.9	19.4	3.7	8.4			14.9	
		22.6	24.9	11.3	16.8	13.2	15.5	10.0	21.0				
INDIRECT CARE	2	1037	1058	4657	633	1494	2193	755	968			12795	
		8.1	8.3	36.4	4.9	11.7	17.1	5.9	7.6			60.1	
		68.9	69.4	58.5	52.0	57.0	55.1	63.2	76.1				
DIRECT CARE	3	129	86	2402	380	781	1167	320	37			5302	
		2.4	1.6	45.3	7.2	14.7	22.0	6.0	.7			24.9	
		8.6	5.6	30.2	31.2	29.8	29.3	26.8	2.9				
COLUMN TOTAL		1506	1524	7952	1218	2622	3978	1194	1272			21276	
		7.1	7.2	37.4	5.7	12.3	18.7	5.6	6.0			100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 14

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

SERVICE	COUNT ROW PCT COL PCT	PROV										HARD CLE RK	RJW TOTAL
		INLEAD ISE	NUR ER	WARD AST	RN	91C	LPN	91B 91C	91F	AIDE	71	81	
CRITICAL CARE	1	1	96	1	168	1	1596	1	480	1	384	1	2910
	1	3.3	1	5.8	1	54.8	1	16.5	1	13.2	1	1	13.7
	1	6.4	1	11.0	1	20.0	1	39.4	1	14.6	1	1	14.6
MED SURG	2	1	228	1	198	1	954	1	258	1	450	1	3180
	1	7.2	1	6.2	1	30.0	1	8.1	1	14.2	1	22.8	14.9
	1	15.1	1	13.0	1	12.0	1	21.2	1	17.2	1	13.3	21.2
PSYCHIATRY	3	1	144	1	480	1	672	1	1	1	1428	1	3354
	1	4.3	1	14.3	1	20.0	1	1	1	1	42.6	1	15.8
	1	9.6	1	31.5	1	8.4	1	1	1	1	35.9	1	18.9
OB LABOR DELIVER	4	1	408	1	414	1	1194	1	96	1	762	1	3318
	1	12.3	1	12.5	1	36.0	1	2.9	1	23.0	1	13.5	15.6
	1	27.1	1	27.2	1	15.0	1	7.9	1	29.1	1	8.7	1
NON NICU	5	1	390	1	168	1	2346	1	288	1	402	1	4536
	1	6.6	1	3.7	1	51.7	1	6.3	1	8.9	1	9.5	21.3
	1	25.9	1	11.0	1	29.5	1	23.6	1	15.3	1	13.9	1
PEDS PICU	6	1	240	1	96	1	1200	1	96	1	624	1	3978
	1	6.0	1	2.4	1	30.2	1	2.4	1	15.7	1	25.2	18.7
	1	15.9	1	6.3	1	15.1	1	7.9	1	23.8	1	25.2	1
COLUMN TOTAL		1506	1524	7962	7962	37.4	1218	2622	3978	1194	1272	5.0	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 15

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

COUNT	ROW	PCT	I	COL	FCT	IARE	ACT										TOTAL				
							-11	CI	ACTV	11	ACTIVE	21	PLIES	EQ	CLERICAL	CES		51	61	71	81
SERVICE	1	1	864	1	255	1	210	1	325	1	147	1	265	1	92	1	344	1	276	1	2910
CRITICAL CARE	1	1	29.7	1	8.8	1	7.2	1	11.2	1	5.1	1	9.1	1	3.2	1	11.8	1	9.5	1	13.7
	1	1	16.3	1	13.3	1	16.6	1	15.6	1	12.6	1	13.5	1	9.2	1	11.5	1	11.9	1	11.5
	2	1	705	1	277	1	242	1	312	1	238	1	346	1	109	1	442	1	367	1	3180
MED SURG	1	1	22.2	1	8.7	1	7.6	1	9.8	1	7.5	1	10.9	1	3.4	1	13.9	1	11.5	1	14.9
	1	1	13.3	1	14.5	1	19.1	1	15.0	1	20.4	1	17.6	1	10.9	1	14.8	1	15.8	1	10.4
	3	1	665	1	283	1	155	1	224	1	36	1	183	1	438	1	718	1	414	1	3354
PSYCHIATRY	1	1	19.8	1	8.4	1	4.6	1	6.7	1	1.1	1	5.5	1	13.1	1	21.4	1	12.3	1	15.8
	1	1	12.5	1	14.8	1	12.2	1	10.8	1	3.1	1	9.3	1	43.6	1	24.1	1	17.8	1	23.0
	4	1	622	1	316	1	239	1	345	1	226	1	352	1	116	1	355	1	527	1	3318
OB LABOR DELIVER	1	1	18.7	1	9.5	1	7.2	1	10.4	1	6.8	1	10.6	1	3.5	1	10.7	1	15.9	1	15.6
	1	1	11.7	1	16.5	1	18.9	1	16.6	1	19.4	1	17.9	1	11.6	1	11.9	1	22.6	1	10.9
	5	1	1672	1	376	1	195	1	420	1	369	1	445	1	121	1	451	1	344	1	4526
NGN NICU	1	1	36.9	1	8.3	1	4.3	1	9.3	1	8.1	1	9.8	1	2.7	1	9.9	1	7.6	1	21.3
	1	1	31.5	1	19.7	1	15.4	1	20.2	1	31.7	1	22.6	1	12.1	1	15.1	1	14.8	1	6.4
	6	1	774	1	406	1	225	1	457	1	149	1	375	1	128	1	671	1	399	1	3978
PEDS PICU	1	1	19.5	1	10.2	1	5.7	1	11.5	1	3.7	1	9.4	1	3.2	1	16.9	1	10.0	1	18.7
	1	1	14.6	1	21.2	1	17.8	1	21.9	1	12.8	1	19.1	1	12.7	1	22.5	1	17.1	1	37.7
	COLUMN TOTAL	5302	1913	1266	2083	1165	1966	1004	2981	2327	368	501	21276	100.0							

NUMBER OF MISSING OBSERVATIONS = 0

Table 16

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT	1	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
ROW	PCT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	ROW
COL	PCT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	TOTAL
PCT	1	11	21	31	41	51	61					
UNAVAILABLE	1	465	1	519	1	438	1	555	1	571	1	3179
	1	14.6	1	16.3	1	13.8	1	17.5	1	18.0	1	14.9
	1	16.0	1	16.3	1	13.1	1	16.7	1	12.6	1	15.9
INDIRECT CARE	2	1581	1	1956	1	2251	1	2141	1	2293	1	12795
	1	12.4	1	15.3	1	17.6	1	16.7	1	17.9	1	60.1
	1	54.3	1	61.5	1	67.1	1	64.5	1	50.6	1	64.7
DIRECT CARE	3	664	1	705	1	665	1	622	1	1672	1	5302
	1	16.3	1	13.3	1	12.5	1	11.7	1	31.5	1	24.9
	1	29.7	1	22.2	1	19.8	1	18.7	1	36.9	1	19.5
COLUMN	2910	3180	3354	3318	4536	3978	21276					
TOTAL	13.7	14.9	15.8	15.6	21.3	18.7	100.0					

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE														ROW TOTAL	
COUNT	ICR	ITC	RMED	RSURG	RPSYCHIAT	ROB	RLABOR	RNBN	RNICU	RPEDS	U				
COL PCT	I CARE	11	21	31	41	51	61								
PER TOT	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
UNAVAILABLE	1	1	397	1	314	1	395	1	414	1	444	1	486	1	
			16.2	1	12.8	1	16.1	1	16.9	1	18.1	1	19.8	1	
			23.3	1	16.5	1	17.0	1	18.9	1	15.9	1	18.7	1	
INDIRECT CARE	2	1	996	1	1203	1	1592	1	1371	1	1610	1	1618	1	
			11.9	1	14.3	1	19.0	1	16.3	1	19.2	1	19.3	1	
			58.5	1	63.2	1	68.6	1	62.6	1	57.6	1	62.3	1	
DIRECT CARE	3	1	311	1	385	1	335	1	405	1	742	1	494	1	
			11.6	1	14.4	1	12.5	1	15.2	1	27.8	1	18.5	1	
			18.3	1	20.2	1	14.4	1	18.5	1	26.5	1	19.0	1	
COLUMN			1704		1902		2322		2190		2796		2598		
TOTAL			12.6		14.1		17.2		16.2		20.7		19.2		
													13512		
													100.0		

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

COUNT		SERVICE										ROW TOTAL
ROW	PCT	ICRITICAL	PED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	
COL	PCT	CARE			RY	DELIVER						
		1	11	21	31	41			51		61	
		1	52	194	40	123		94		140		643
		1	8.1	30.2	6.2	19.1		14.6		21.8		12.9
		1	7.2	21.7	5.6	17.8		9.1		15.6		
		2	322	505	410	445		317		587		2586
		1	12.5	19.5	15.9	17.2		12.3		22.7		52.1
		1	44.4	56.5	56.9	64.5		30.5		65.2		
		3	352	195	270	122		627		173		1739
		1	20.2	11.2	15.5	7.0		36.1		9.9		35.0
		1	48.5	21.8	37.5	17.7		60.4		19.2		
		COLUMN TOTAL	726	894	720	690		1038		900		4968
			14.6	18.0	14.5	13.9		20.9		18.1		100.0

Table 19

FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE														ROW TOTAL
COUNT	ROW PCT	ICRITICAL	MED	SURG	PSYCHIAT	OB	LABOR	NBN	NICU	PEDS	PIC	U		
COL PCT	I CARE	I	11	21	RY	31	41	51	61					
PER TOT														
UNAVAILABLE	1	1	16	1	11	1	3	1	18	1	33	1	5	86
		1	18.6	1	12.8	1	3.5	1	20.9	1	38.4	1	5.8	3.1
		1	3.3	1	2.9	1	1.0	1	4.1	1	4.7	1	1.0	1
INDIRECT CARE	2	1	263	1	248	1	249	1	325	1	366	1	368	1819
		1	14.5	1	13.6	1	13.7	1	17.9	1	20.1	1	20.2	65.1
		1	54.8	1	64.6	1	79.8	1	74.2	1	52.1	1	76.7	1
DIRECT CARE	3	1	201	1	125	1	60	1	95	1	303	1	107	891
		1	22.6	1	14.0	1	6.7	1	10.7	1	34.0	1	12.0	31.9
		1	41.9	1	32.6	1	19.2	1	21.7	1	43.2	1	22.3	1
COLUMN TOTAL		480	384	312	438	702	480	17.2	13.7	11.2	15.7	25.1	17.2	2796
														100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT CARE

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT
COMMUNICATIVE	2	2083	16.3	16.3
MEDS SUPPLIES EQUIP	3	1165	9.1	9.1
CHARTING CLERICAL	4	1965	15.4	15.4
CONFERENCES	5	1004	7.8	7.8
TRAVEL TRANSPORT	6	2981	23.3	23.3
ADMINISTRATION	7	2327	18.2	18.2
ENVIRONMENTAL	8	363	2.9	2.9
WAIT TIME	9	901	7.0	7.0
		-----	-----	-----
	TOTAL	12795	100.0	100.0
VALID CASES	12795	MISSING CASES	0	

Table 22
FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW COL	PCT PCT	PROV										RD# TOTAL						
			HEAD	NUR	WARD	MAST	RN	91C	LPN	91B 91G	91F	AIDE		WARD RK	CLE				
			ISE	ER	ER														
			1	11	21	31	41	51	61	71	81								
COMMUNICATIVE	2	1	160	1	104	1	962	1	78	1	238	1	222	1	120	1	199	1	2083
		1	7.7	1	5.0	1	46.2	1	3.7	1	11.4	1	13.7	1	5.8	1	9.6	1	16.3
		1	15.4	1	9.8	1	20.7	1	12.3	1	15.9	1	13.1	1	15.9	1	20.6	1	
MEDS SUPPLIES	3	1	48	1	125	1	535	1	133	1	165	1	100	1	46	1	13	1	1165
	EW	1	4.1	1	10.7	1	45.9	1	11.4	1	14.2	1	9.6	1	3.9	1	1.1	1	9.1
		1	4.6	1	11.8	1	11.5	1	21.0	1	11.0	1	4.6	1	6.1	1	1.3	1	
CHARTING CLERICAL	4	1	111	1	8	1	1043	1	69	1	198	1	159	1	94	1	204	1	1966
		1	5.6	1	.4	1	53.1	1	3.5	1	10.1	1	3.1	1	4.8	1	14.4	1	15.4
		1	10.7	1	.8	1	22.4	1	10.9	1	13.3	1	7.3	1	12.5	1	29.3	1	
CONFERENCES	5	1	114	1	40	1	388	1	26	1	74	1	293	1	67	1		1	1004
		1	11.4	1	4.0	1	38.6	1	2.8	1	7.4	1	29.2	1	6.7	1		1	7.8
		1	11.0	1	3.8	1	8.3	1	4.4	1	5.0	1	13.4	1	8.9	1		1	
TRAVEL TRANSPORT	6	1	89	1	246	1	875	1	176	1	404	1	742	1	280	1	169	1	2981
		1	3.0	1	8.3	1	29.4	1	5.9	1	13.6	1	24.9	1	9.4	1	5.7	1	23.3
		1	8.6	1	23.3	1	18.8	1	27.8	1	27.0	1	33.8	1	37.1	1	17.5	1	
ADMINISTRATION	7	1	508	1	457	1	551	1	76	1	158	1	223	1	42	1	262	1	2327
		1	21.8	1	21.4	1	24.1	1	3.3	1	6.8	1	9.6	1	1.8	1	11.3	1	18.2
		1	49.0	1	47.0	1	12.0	1	12.0	1	10.6	1	13.2	1	5.6	1	27.1	1	
ENVIRONMENTAL	8	1	6	1	18	1	63	1	31	1	121	1	78	1	45	1	6	1	368
		1	1.6	1	4.9	1	17.1	1	8.4	1	32.9	1	21.2	1	12.2	1	1.6	1	2.9
		1	.6	1	1.7	1	1.4	1	4.9	1	8.1	1	3.6	1	6.0	1	.6	1	
WAIT TIME	9	1	1	1	20	1	230	1	42	1	136	1	376	1	61	1	35	1	901
		1	.1	1	2.2	1	25.5	1	4.7	1	15.1	1	41.7	1	6.8	1	3.9	1	7.0
		1	.1	1	1.9	1	4.9	1	6.6	1	9.1	1	17.1	1	8.1	1	3.6	1	
COLUMN TOTAL			1037		1058		4657		633		1494		2193		755		968		12795
			8.1		8.3		36.4		4.9		11.7		17.1		5.9		7.6		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 23
FAMC

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

ACT	COUNT		SERVICE											ROW TOTAL	
	NUM	PCT	CRITICAL	MED	SURG	PSYCHIAT	OB LABOR	NBN	NICU	PEDS	PIC				
	COL	PCT	CARE			RY	DELIVER		U						
	1		11		21		31		41		51		61		
COMMUNICATIVE	2	1	325	1	312	1	224	1	345	1	420	1	457	1	2083
		1	15.6	1	15.0	1	10.8	1	16.6	1	20.2	1	21.9	1	16.3
		1	20.6	1	16.0	1	10.0	1	16.1	1	18.3	1	17.8	1	
MEDS SUPPLIES EQ	3	1	147	1	238	1	36	1	226	1	369	1	149	1	1165
		1	12.6	1	20.4	1	3.1	1	19.4	1	31.7	1	12.8	1	9.1
		1	9.3	1	12.2	1	1.6	1	10.6	1	16.1	1	5.8	1	
CHARTING CLERICAL	4	1	265	1	346	1	183	1	352	1	445	1	375	1	1966
		1	13.5	1	17.6	1	9.3	1	17.9	1	22.6	1	19.1	1	15.4
		1	16.8	1	17.7	1	8.1	1	16.4	1	19.4	1	16.6	1	
CONFERENCES	5	1	92	1	169	1	438	1	116	1	121	1	128	1	1004
		1	9.2	1	10.9	1	43.6	1	11.6	1	12.1	1	12.7	1	7.8
		1	5.8	1	5.6	1	19.5	1	5.4	1	5.3	1	5.0	1	
TRAVEL TRANSPORT	6	1	344	1	442	1	718	1	355	1	451	1	671	1	2981
		1	11.5	1	14.6	1	24.1	1	11.9	1	15.1	1	22.5	1	23.3
		1	21.8	1	22.6	1	31.9	1	16.6	1	19.7	1	26.1	1	
ADMINISTRATION	7	1	276	1	367	1	414	1	527	1	344	1	399	1	2327
		1	11.9	1	15.8	1	17.8	1	22.6	1	14.8	1	17.1	1	18.2
		1	17.5	1	18.8	1	18.4	1	24.6	1	15.0	1	15.5	1	
ENVIRONMENTAL	8	1	28	1	48	1	31	1	122	1	85	1	54	1	368
		1	7.6	1	13.0	1	8.4	1	33.2	1	23.1	1	14.7	1	2.9
		1	1.8	1	2.5	1	1.4	1	5.7	1	3.7	1	2.1	1	
WAIT TIME	9	1	104	1	94	1	237	1	98	1	58	1	340	1	901
		1	11.5	1	10.4	1	23.0	1	10.9	1	6.4	1	37.7	1	7.0
		1	6.6	1	4.8	1	9.2	1	4.6	1	2.5	1	13.2	1	
COLUMN TOTAL			1581		1956		2251		2141		2293		2573		12795
			12.4		15.3		17.6		16.7		17.9		23.1		100.0

NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 22

DEWITT COMMUNITY HOSPITAL
FORT BELVOIR, VIRGINIA

Table 1

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	6426	69.2	69.2	69.2
APRIL	4	2856	30.8	30.8	100.0
		<hr/>	<hr/>	<hr/>	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 2

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	852	9.2	9.2	9.2
MONDAY	2	972	10.5	10.5	19.7
TUESDAY	3	1482	16.0	16.0	35.6
WEDNESDAY	4	1746	18.8	18.8	54.4
THURSDAY	5	2034	21.9	21.9	76.3
FRIDAY	6	1158	12.5	12.5	88.8
SATURDAY	7	1038	11.2	11.2	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 3

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	5592	60.2	60.2	60.2
EVENING	2	2454	26.4	26.4	86.7
NIGHT	3	1236	13.3	13.3	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 4

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	774	8.3	8.3	8.3
SURG	2	1434	15.4	15.4	23.8
OB	5	1440	15.5	15.5	39.3
NEWBORN	8	996	10.7	10.7	50.0
PEDS	9	2130	22.9	22.9	73.0
ICU COMBO	13	2508	27.0	27.0	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 5

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	2508	27.0	27.0	27.0
MED SURG	2.00	2208	23.8	23.8	50.8
OB LABOR DELIVERY	4.00	1440	15.5	15.5	66.3
NBN NICU	5.00	996	10.7	10.7	77.1
PEDS PICU	6.00	2130	22.9	22.9	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 8

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	2524	27.2	27.2	27.2
PERSONAL	0	730	7.9	7.9	35.1
OFF UNIT ACTV	1	399	4.3	4.3	39.4
COMMUNICATIVE	2	995	10.7	10.7	50.1
MEDS SUPPLIES EQUIP	3	584	6.3	6.3	56.4
CHARTING CLERICAL	4	1396	15.0	15.0	71.4
CONFERENCES	5	275	3.0	3.0	74.4
TRAVEL TRANSPORT	6	940	10.1	10.1	84.5
ADMINISTRATION	7	662	7.1	7.1	91.6
ENVIRONMENTAL	8	205	2.2	2.2	93.8
WAIT TIME	9	572	6.2	6.2	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 10

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-1	84	.9	.9	.9
HEAD NURSE	1	774	8.3	8.3	9.2
WARDMASTER	2	888	9.6	9.6	18.8
RN	3	2880	31.0	31.0	49.8
91C	4	1668	18.0	18.0	67.8
LPN	5	192	2.1	2.1	69.9
91B 91F 91G	6	1452	15.6	15.6	85.5
AIDE	7	762	8.2	8.2	93.7
WARD CLERK	8	582	6.3	6.3	100.0
		-----	-----	-----	
	TOTAL	9282	100.0	100.0	
VALID CASES	9282	MISSING CASES	0		

Table 12

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT		ACT													TOTAL							
ROW	PCT	INDIRECT	PERSONAL	OFF	UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	HAIT	TIP	ROW						
COL	PCT	INDIRECT	PERSONAL	OFF	UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	HAIT	TIP	ROW						
1	1	146	1	42	1	32	1	177	1	143	1	31	1	57	1	93	1	2	1	5	1	774
1	1	18.9	1	5.4	1	4.1	1	22.9	1	18.5	1	4.0	1	7.4	1	12.0	1	.3	1	.6	1	8.4
1	1	5.9	1	5.8	1	8.2	1	18.0	1	10.3	1	11.3	1	6.1	1	14.0	1	1.0	1	.9	1	9.1
2	1	114	1	62	1	62	1	98	1	47	1	21	1	127	1	265	1	37	1	6	1	889
1	1	12.8	1	7.0	1	7.0	1	11.0	1	5.3	1	2.4	1	14.3	1	29.8	1	4.2	1	.7	1	9.7
1	1	4.6	1	8.6	1	15.9	1	10.0	1	3.4	1	7.6	1	13.5	1	40.0	1	18.1	1	1.1	1	1.1
3	1	897	1	194	1	45	1	371	1	625	1	115	1	156	1	122	1	20	1	133	1	2880
1	1	31.1	1	6.7	1	1.6	1	12.9	1	21.7	1	4.0	1	5.4	1	4.2	1	.7	1	4.6	1	31.3
1	1	36.1	1	27.0	1	11.6	1	37.7	1	45.2	1	41.8	1	16.6	1	18.4	1	9.8	1	23.3	1	23.3
4	1	544	1	167	1	99	1	97	1	150	1	54	1	182	1	43	1	51	1	174	1	1663
1	1	32.6	1	10.0	1	5.9	1	5.8	1	9.6	1	3.2	1	10.9	1	2.6	1	3.1	1	10.4	1	18.1
1	1	21.9	1	23.2	1	25.4	1	9.9	1	10.8	1	19.6	1	19.4	1	5.5	1	25.0	1	30.5	1	30.5
5	1	115	1	6	1	12	1	12	1	29	1	2	1	7	1	1	1	9	1	2	1	192
1	1	59.9	1	3.1	1	6.3	1	4.7	1	15.1	1	1.0	1	3.6	1	.5	1	4.7	1	1.0	1	2.1
1	1	4.6	1	.8	1	1.2	1	1.5	1	2.1	1	.7	1	.7	1	.2	1	4.4	1	.4	1	4.4
6	1	442	1	137	1	58	1	80	1	140	1	36	1	204	1	25	1	43	1	176	1	1452
1	1	30.4	1	9.4	1	4.0	1	5.5	1	9.6	1	2.5	1	14.0	1	1.7	1	3.0	1	12.1	1	15.8
1	1	17.6	1	19.1	1	14.9	1	8.1	1	10.1	1	13.1	1	21.7	1	3.8	1	21.1	1	30.9	1	30.9
7	1	214	1	46	1	21	1	56	1	56	1	8	1	156	1	32	1	42	1	72	1	762
1	1	28.1	1	6.0	1	2.8	1	7.3	1	7.3	1	1.0	1	20.5	1	4.2	1	5.5	1	9.4	1	8.3
1	1	8.6	1	6.4	1	5.4	1	5.7	1	4.0	1	2.9	1	16.6	1	4.8	1	20.6	1	12.6	1	12.6
8	1	16	1	65	1	72	1	93	1	194	1	8	1	50	1	81	1	1	1	2	1	562
1	1	2.7	1	11.2	1	12.4	1	16.0	1	33.3	1	1.4	1	8.6	1	13.9	1	.3	1	.3	1	6.3
1	1	.6	1	9.0	1	18.5	1	9.5	1	16.0	1	2.9	1	5.3	1	12.2	1	1	1	.4	1	1.1
COLUMN		2486		719		389		984		1384		275		939		662		204		570		9196
TOTAL		27.0		7.8		4.2		10.7		15.0		3.0		10.2		7.2		2.2		6.2		100.0

NUMBER OF MISSING OBSERVATIONS = 84

TABLE 13
Dewitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PERIOD	COUNT ROW PCT COL PCT	PROV										R34 TOTAL
		HEAD NUR	WARDMAST	RN	91C	LPN	91B 91F 91C	AIDE	WARD CLE RK			
		ISE	ER									
		11	21	31	41	51	61	71	81			
		1	1	1	1	1	1	1	1	1	1	
UNAVAILABLE	1	74	124	239	266	6	195	67	137		1108	
		6.7	11.2	21.6	24.0	.5	17.6	6.0	12.4		12.0	
		9.6	14.0	8.3	15.9	3.1	13.4	8.8	23.5			
INDIRECT CARE	2	554	650	1744	858	71	815	481	429		5602	
		9.9	11.6	31.1	15.3	1.3	10.5	8.6	7.7		60.9	
		71.6	73.2	60.6	51.4	37.0	55.1	63.1	73.7			
DIRECT CARE	3	146	114	897	544	115	442	214	16		2488	
		5.9	4.6	36.1	21.9	4.6	17.8	8.6	.6		27.0	
		18.9	12.8	31.1	32.6	59.9	30.4	28.1	2.7			
COLUMN TOTAL		774	888	2880	1668	192	1452	762	582		9198	
TOTAL		8.4	9.7	31.3	18.1	2.1	15.8	8.3	6.3		100.0	

NUMBER OF MISSING OBSERVATIONS = 84

Table 14

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

PROV																
COUNT	ROW	PCT	I	HEAD	NUR	HARD	MAST	RN	91C	LPN	91B 91G	91F AIDE	WARD RK	CLE RK	ROW TOTAL	
CUL	PCT	ISE	1	11	21	31	41	51	61	71	81					
SERVICE	1	1	144	1	144	1	930	1	810	1	192	1	288	1	1	2508
	CRITICAL CARE	1	5.7	1	5.7	1	37.1	1	32.3	1	7.7	1	11.5	1	1	27.3
	1	16.6	1	16.2	1	32.3	1	46.6	1	100.0	1	19.8	1	1	1	
MED SURG	2	1	240	1	240	1	390	1	318	1	1	504	1	270	1	2208
	1	10.5	1	10.9	1	17.7	1	14.4	1	1	22.8	1	12.2	1	11.1	24.0
	1	31.0	1	27.0	1	13.5	1	19.1	1	1	34.7	1	35.4	1	42.3	
OB LABOR DELIVER	4	1	126	1	198	1	492	1	240	1	1	192	1	1	192	1440
	1	8.6	1	13.8	1	34.2	1	16.7	1	1	13.3	1	13.3	1	13.3	15.7
	1	16.3	1	22.3	1	17.1	1	14.4	1	1	13.2	1	1	1	33.0	
NEW NICU	5	1	96	1	48	1	426	1	96	1	1	186	1	60	1	912
	1	10.5	1	5.3	1	46.7	1	10.5	1	1	20.4	1	6.6	1	1	9.9
	1	12.4	1	5.4	1	14.8	1	5.8	1	1	12.8	1	7.9	1	1	
PEDS PICU	6	1	168	1	258	1	642	1	204	1	1	282	1	432	1	2130
	1	7.9	1	12.1	1	30.1	1	9.6	1	1	13.2	1	20.3	1	5.8	23.2
	1	21.7	1	29.1	1	22.3	1	12.2	1	1	19.4	1	56.7	1	24.7	
COLUMN TOTAL		774	888	2680	1668	192	1452	762	582	9198	100.0					
		8.4	9.7	31.3	18.1	2.1	15.8	8.3	5.3							

NUMBER OF MISSING OBSERVATIONS = 84

Table 15

Dewitt

TIME SPENT IN INDIRECT NURSING CARE STUDY SERVICE BY ACTIVITY PERFORMED

[illegible]

Table 16

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	SERVICE										RCM TOTAL
	CCUNT RCM PCT COL PCT	I I CARE	11	21	41	51	61	U	PEDS	PIC	
UNAVAILABLE	1	1	239	1	289	1	185	1	128	1	1129
		1	21.2	1	25.6	1	16.4	1	11.3	1	12.2
		1	9.5	1	13.1	1	12.8	1	12.9	1	13.5
INDIRECT CARE	2	1	1373	1	1416	1	978	1	502	1	5629
		1	24.4	1	25.2	1	17.4	1	8.9	1	60.6
		1	54.7	1	64.2	1	67.9	1	50.4	1	63.8
DIRECT CARE	3	1	896	1	501	1	277	1	366	1	2524
		1	35.5	1	19.8	1	11.0	1	14.5	1	27.2
		1	35.7	1	22.7	1	19.2	1	36.7	1	22.7
COLUMN		2508	2208	1440	996	2130	9282				
TOTAL		27.0	23.8	15.5	10.7	22.9	100.0				

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

SERVICE												
COUNT	ROW	PCT	ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC	ROW
COL	PCT	I	CARE				DELIVER			U		TOTAL
	I		11	21			41	51	61			
PER TOT	1	1	12.4	1	22.3	1	90	1	91	1	219	747
UNAVAILABLE	1	1	16.6	1	29.9	1	12.0	1	12.2	1	29.3	13.4
	1	1	9.3	1	14.3	1	11.4	1	17.6	1	15.8	1
	2	1	782	1	1022	1	554	1	248	1	865	3471
INDIRECT CARE	1	1	22.5	1	29.4	1	16.0	1	7.1	1	24.9	62.1
	1	1	58.4	1	65.5	1	69.9	1	48.1	1	62.4	1
	3	1	432	1	315	1	148	1	177	1	302	1374
DIRECT CARE	1	1	31.4	1	22.9	1	10.8	1	12.9	1	22.0	24.6
	1	1	32.3	1	20.2	1	18.7	1	34.3	1	21.8	1
COLUMN			1338		1560		792		516		1386	5592
TOTAL			23.9		27.9		14.2		9.2		24.8	100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT		ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC		
ROW	PCT	I CARE				DELIVER			U			
COL	PCT	I CARE	11	21	41	51	61					
PERTOT		1	11	21	41	51	61					
UNAVAILABLE	1	112	1	64	1	93	1	37	1	59	1	365
	1	30.7	1	17.5	1	25.5	1	10.1	1	16.2	1	14.9
	1	14.2	1	14.0	1	22.8	1	12.8	1	11.4	1	
INDIRECT CARE	2	446	1	262	1	235	1	150	1	333	1	1426
	1	31.3	1	18.4	1	16.5	1	10.5	1	23.4	1	58.1
	1	56.7	1	57.5	1	57.6	1	52.1	1	64.5	1	
DIRECT CARE	3	228	1	130	1	80	1	101	1	124	1	663
	1	34.4	1	19.6	1	12.1	1	15.2	1	18.7	1	27.0
	1	29.0	1	28.5	1	19.6	1	35.1	1	24.0	1	
COLUMN		786	456	408	288	516	2454					
TOTAL		32.0	18.6	16.6	11.7	21.0	100.0					

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT CARE

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	995	17.7
MEDS SUPPLIES EQUIP	3	584	10.4
CHARTING CLERICAL	4	1396	24.8
CONFERENCES	5	275	4.9
TRAVEL TRANSPORT	6	943	16.7
ADMINISTRATION	7	662	11.8
ENVIRONMENTAL	8	205	3.6
WAIT TIME	9	572	10.2
		-----	-----
	TOTAL	5629	100.0
VALID CASES	5629	MISSING CASES	0

Table 22
DeWitt

TIME SPENT IN INDIRECT NURSING CARE STUDY
INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW PCT COL PCT	PROV										ADJ TOTAL
		HEAD NUR	WARDMASTER	RN	91C	LPN	91B 91F 91C	AIDE	WARD CLE RK			
		11	21	31	41	51	61	71	81			
		1	1	1	1	1	1	1	1			
COMMUNICATIVE	2	177	98	371	97	12	60	56	93		984	
		18.0	10.0	37.7	9.9	1.2	5.1	5.7	9.5		17.6	
		31.9	15.1	21.3	11.3	16.9	9.8	11.6	21.7			
MEDS SUPPLIES	3	46	49	202	107	9	111	59	1		584	
		7.9	8.4	34.6	18.3	1.5	19.0	10.1	.2		10.4	
		8.3	7.5	11.6	12.5	12.7	13.6	12.3	.2			
CHARTING CLERICAL	9	143	47	625	150	29	140	56	194		1384	
		10.3	3.4	45.2	10.8	2.1	10.1	4.0	14.0		24.7	
		25.8	7.2	35.8	17.5	40.8	17.2	11.6	45.2			
CONFERENCES	5	31	21	115	54	2	36	8	8		275	
		11.3	7.6	41.8	19.6	.7	13.1	2.9	2.9		4.9	
		9.6	3.2	6.6	6.3	2.8	4.4	1.7	1.9			
TRAVEL TRANSPORT	6	57	127	156	182	7	204	156	50		939	
		6.1	13.5	16.6	19.4	.7	21.7	16.6	5.3		16.8	
		10.3	19.5	8.9	21.2	9.9	25.0	32.4	11.7			
ADMINISTRATION	7	93	265	122	43	1	25	32	81		662	
		14.0	40.0	18.4	6.5	.2	3.8	4.8	12.2		11.8	
		16.8	40.8	7.0	5.0	1.4	3.1	6.7	18.9			
ENVIRONMENTAL	8	2	37	20	51	9	43	42			234	
		1.0	18.1	9.8	25.0	4.4	21.1	20.6			3.6	
		.4	5.7	1.1	5.9	12.7	5.3	8.7				
WAIT TIME	9	5	6	133	174	2	176	72	2		570	
		.9	1.1	23.3	30.5	.4	30.9	12.6	.4		10.2	
		.9	.9	7.6	20.3	2.8	21.6	15.0	.5			
COLUMN TOTAL		554	650	1744	858	71	315	481	429		5632	
		9.9	11.6	31.1	15.3	1.3	14.5	8.6	7.7		100.0	

NUMBER OF MISSING OBSERVATIONS = 27

Table 23
Dewitt

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

ACT	COUNT	SERVICE										RCH TOTAL			
		HOM COL	PCT PLT	I CARE	CRITICAL	MED	SURG	Jb DELIVER	LABOR	NBM	NICU		PEDS	PIC	
		1			11		21		41		51	U	61		
COMMUNICATIVE	2	1			254	1	251	1	134	1	109	1	197	995	
		1			25.5	1	25.2	1	18.5	1	11.0	1	14.8	17.7	
		1			18.5	1	17.7	1	18.8	1	21.7	1	14.5		
MEDS SUPPLIES EQ	3	1			142	1	151	1	92	1	61	1	138	584	
		1			24.3	1	25.9	1	15.8	1	10.4	1	23.6	10.4	
		1			10.3	1	10.6	1	9.4	1	12.2	1	10.2		
CHARTING CLERICAL	4	1			381	1	352	1	207	1	127	1	329	1396	
		1			27.3	1	25.2	1	14.8	1	9.1	1	23.6	24.8	
		1			27.7	1	24.8	1	21.2	1	25.3	1	24.2		
CONFERENCES	5	1			93	1	46	1	31	1	27	1	78	275	
		1			33.8	1	16.7	1	11.3	1	9.8	1	28.4	4.9	
		1			6.8	1	3.2	1	3.2	1	5.4	1	5.7		
TRAVEL TRANSPORT	6	1			161	1	350	1	161	1	80	1	208	940	
		1			17.1	1	37.2	1	17.1	1	6.4	1	22.1	18.7	
		1			11.7	1	24.7	1	16.5	1	12.0	1	15.3		
ADMINISTRATION	7	1			132	1	151	1	142	1	39	1	198	662	
		1			19.9	1	22.8	1	21.5	1	5.9	1	29.9	11.8	
		1			9.6	1	10.6	1	14.5	1	7.8	1	14.6		
ENVIRONMENTAL	8	1			38	1	67	1	32	1	19	1	49	205	
		1			18.5	1	32.7	1	15.6	1	9.3	1	23.9	3.6	
		1			2.8	1	4.7	1	3.3	1	3.8	1	3.6		
WAIT TIME	9	1			172	1	50	1	129	1	60	1	161	572	
		1			30.1	1	8.7	1	22.6	1	10.5	1	26.1	19.2	
		1			12.5	1	3.5	1	13.2	1	12.0	1	11.9		
CUMULN					1373		1418		978		502		1358	5629	
TOTAL					24.4		25.2		17.4		8.9		24.1	100.0	

NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 23

US ARMY MEDICAL ACTIVITY
FORT CARSON, COLORADO

Table 1

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	4470	39.9	39.9	39.9
APRIL	4	6744	60.1	60.1	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 2
Ft Carson
TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	714	6.4	6.4	6.4
MONDAY	2	1656	14.8	14.8	21.1
TUE SDAY	3	2040	18.2	18.2	39.3
WEDNESDAY	4	2100	18.7	18.7	58.1
THURSDAY	5	2196	19.6	19.6	77.6
FRIDAY	6	1836	16.4	16.4	94.0
SATURDAY	7	672	6.0	6.0	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 3

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	7368	65.7	65.7	65.7
EVENING	2	2502	22.3	22.3	88.0
NIGHT	3	1344	12.0	12.0	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 4

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED SURG COMBO	3	1536	13.7	13.7	13.7
ORTHOPEDIC	4	966	8.6	8.6	22.3
OB	5	708	6.3	6.3	28.6
OB L&D COMBO	7	2010	17.9	17.9	46.5
NEWBORN	8	1428	12.7	12.7	59.3
PEDS	9	2412	21.5	21.5	80.8
ICU COMBO	13	2154	19.2	19.2	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 5
Ft Carson
TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
CRITICAL CARE	1.00	2154	19.2	19.2	19.2
MED SURG	2.00	2502	22.3	22.3	41.5
OB LABOR DELIVERY	4.00	2718	24.2	24.2	65.8
NBN NICU	5.00	1428	12.7	12.7	78.5
PEDS PICU	6.00	2412	21.5	21.5	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 8

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	2396	21.4	21.4	21.4
PERSONAL	0	1026	9.1	9.1	30.5
OFF UNIT ACTV	1	664	5.9	5.9	36.4
COMMUNICATIVE	2	1110	9.9	9.9	46.3
MEDS SUPPLIES EQUIP	3	644	5.7	5.7	52.1
CHARTING CLERICAL	4	1213	10.8	10.8	62.9
CONFERENCES	5	233	2.1	2.1	65.0
TRAVEL TRANSPORT	6	1178	10.5	10.5	75.5
ADMINISTRATION	7	1080	9.6	9.6	85.1
ENVIRONMENTAL	8	335	3.0	3.0	88.1
WAIT TIME	9	1335	11.9	11.9	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214				
	MISSING CASES	0			

Table 10
Ft Carson
TIME SPENT IN INDIRECT NURSING CARE STUDY
CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	720	6.4	6.4	6.4
WARDMASTER	2	768	6.8	6.8	13.3
RN	3	3174	28.3	28.3	41.6
91C	4	1542	13.8	13.8	55.3
LPN	5	2400	21.4	21.4	76.7
91B 91F 91G	6	1194	10.6	10.6	87.4
AIDE	7	624	5.6	5.6	92.9
WARD CLERK	8	792	7.1	7.1	100.0
		-----	-----	-----	
	TOTAL	11214	100.0	100.0	
VALID CASES	11214	MISSING CASES	0		

Table 12

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ROW	PCT	I	DIRECT	C	PERSONAL	OFF	UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFERENCE	TRAVEL	ADMINISTRATION	ENVIRONMENTAL	WAIT	TIME	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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NUMBER OF MISSING OBSERVATIONS = 0

Table 13

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PROV															
COUNT	ROW	PCT	I	HEAD	NUR	HARDMAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	RJH
CCL	PCT	ISE	1	11	21	31	41	51	61	71	81				TOTAL
-----+															

NUMBER OF MISSING OBSERVATIONS = 0

Table 14

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

PROV															
COUNT	ROW	PCT	I	HEAD	NF	BAROMAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	ROW
COL	PCT	ISE	I	I	ER	ER				91G			RK		TOTAL
			1	11	21	31	41	51	61	71	81				
SERVICE															
CRITICAL CARE	1	1	192	1	152	1	438	1	372	1	528	1	240	1	2154
			8.9	1	8.9	1	20.3	1	17.3	1	24.5	1	11.1	1	19.2
	1	1	26.7	1	25.0	1	13.8	1	24.1	1	22.0	1	20.1	1	12.1
MED SURG	2	1	144	1	144	1	558	1	306	1	582	1	384	1	2502
			5.8	1	5.8	1	22.3	1	12.2	1	23.3	1	15.3	1	22.3
	1	1	20.0	1	18.8	1	17.6	1	19.8	1	24.3	1	32.2	1	30.3
OB LABOR DELIVER	4	1	144	1	192	1	1038	1	288	1	714	1	144	1	2718
			5.3	1	7.1	1	38.2	1	10.6	1	26.3	1	5.3	1	24.2
	1	1	20.0	1	25.0	1	32.7	1	18.7	1	29.8	1	12.1	1	25.0
NBN NICU	5	1	144	1	1	1	660	1	1	1	144	1	96	1	1428
			10.1	1	1	1	46.2	1	1	1	10.1	1	5.7	1	12.7
	1	1	20.0	1	1	1	20.8	1	1	1	6.0	1	3.0	1	61.5
PEDS PICU	6	1	96	1	240	1	490	1	576	1	432	1	330	1	2412
			4.0	1	10.0	1	19.9	1	23.9	1	17.9	1	13.7	1	21.5
	1	1	13.3	1	31.3	1	15.1	1	37.4	1	18.0	1	27.6	1	32.6
COLUMN TOTAL			720	768	3174	1542	2400	1194	624	792	11214				100.0
			6.4	6.8	28.3	13.8	21.4	10.6	5.6	7.1					

NUMBER OF MISSING OBSERVATIONS = 0

Table 15

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

SERVICE	COUNT ROW PCT COL PCT	ACT										TOTAL
		INDIRECT	PERSONAL	OFF UNIT	COMMUNIC	MEDS SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRONMENTAL	
		ACTV	ACTV	ACTIVE	PLIES EQ	CERLICA CES	RANSPO	RATION	ENTAL	IE		
		-11	01	11	21	31	41	51	61	71	81	91
CRITICAL CARE	1	457	221	100	173	145	224	54	206	193	35	346
		21.2	10.3	4.6	8.0	6.7	10.4	2.5	9.6	9.0	1.6	16.1
		19.1	21.5	15.1	15.6	22.5	18.5	23.2	17.5	17.9	10.4	25.9
MED SURG	2	451	282	195	259	125	305	44	351	232	73	185
		18.0	11.3	7.8	10.4	5.0	12.2	1.8	14.0	9.3	2.9	7.4
		18.8	27.5	29.4	23.3	19.4	25.1	18.9	29.8	21.5	21.8	13.9
DE LABOR DELIVER	4	585	272	119	249	172	317	49	265	298	117	275
		21.5	10.0	4.4	9.2	6.3	11.7	1.8	9.7	11.0	4.3	10.1
		24.4	26.5	17.9	22.4	26.7	26.1	21.0	22.5	27.5	34.9	20.6
NBN NICU	5	317	86	32	181	76	108	26	118	166	48	270
		22.2	6.0	2.2	12.7	5.3	7.6	1.8	8.3	11.6	3.4	18.9
		13.2	8.4	4.8	16.3	11.8	8.9	11.2	10.0	15.4	14.3	20.2
PEDS PICU	6	586	165	218	248	126	259	60	238	191	62	259
		24.3	6.8	9.0	10.3	5.2	10.7	2.5	9.9	7.9	2.6	10.7
		24.5	16.1	32.8	22.3	19.6	21.4	25.8	20.2	17.7	18.5	19.4
COLUMN TOTAL		2306	1026	664	1110	644	1213	233	1178	1080	335	1335
		21.4	9.1	5.9	9.9	5.7	10.8	2.1	10.5	9.6	3.0	11.9
												100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 16

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

COUNT	SERVICE										ROW TOTAL
	ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC	U	
ROW	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	
COL	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	PCT I	
PLRTOT	1	11	21	41	51	61					
UNAVAILABLE	1	321	1	477	1	391	1	118	1	383	1
	1	19.0	1	28.2	1	23.1	1	7.0	1	22.7	1
	1	14.9	1	19.1	1	14.4	1	6.3	1	15.9	1
INDIRECT CARE	2	1376	1	1574	1	1742	1	993	1	1443	1
	1	19.3	1	22.1	1	24.4	1	13.9	1	20.2	1
	1	63.9	1	62.9	1	64.1	1	69.5	1	59.8	1
DIRECT CARE	3	457	1	451	1	585	1	317	1	586	1
	1	19.1	1	18.8	1	24.4	1	13.2	1	24.5	1
	1	21.2	1	18.0	1	21.5	1	22.2	1	24.3	1
COLUMN	2154	2502	2718	24.2	1428	2412					
TOTAL	19.2	22.3	24.2	12.7	21.5	21.5					

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE										ROW TOTAL
COUNT	I	ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC	U	
ROW PCT	COL PCT	ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC	U	ROW TOTAL
PER TOT	I	11	21	41	51	61						
UNAVAILABLE	1	272	431	1	291	1	76	1	335	1		1405
	I	19.4	30.7	1	20.7	1	5.4	1	23.8	1		19.1
	I	19.0	23.6	1	17.6	1	10.1	1	19.7	1		
INDIRECT CARE	2	850	1111	1	1081	1	484	1	1031	1		4557
	I	18.7	24.4	1	23.7	1	10.6	1	22.6	1		61.8
	I	59.3	60.9	1	65.5	1	64.0	1	60.5	1		
DIRECT CARE	3	312	282	1	278	1	196	1	338	1		1406
	I	22.2	20.1	1	19.8	1	13.9	1	24.0	1		19.1
	I	21.8	15.5	1	16.8	1	25.9	1	19.8	1		
COLUMN	1434	1824	1650	756	1704							7368
TOTAL	19.5	24.8	22.4	10.3	23.1							100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

COUNT	SERVICE										ROW TOTAL
	PCT I	ICRITICAL	MED	SURG	OB	LABOR	NBN	NICU	PEDS	PIC	
COL	PCT I	CARE				DELIVER					
PERTOT	1	11	21	41	51	61					
UNAVAILABLE	1	42	1	45	1	95	1	36	1	46	264
	1	15.9	1	17.0	1	36.0	1	13.6	1	17.4	10.6
	1	9.7	1	9.3	1	14.9	1	8.3	1	8.9	
	1										
INDIRECT CARE	2	307	1	305	1	368	1	336	1	274	1590
	1	19.3	1	19.2	1	23.1	1	21.1	1	17.2	63.5
	1	71.1	1	62.8	1	57.9	1	77.8	1	53.1	
	1										
DIRECT CARE	3	83	1	136	1	173	1	60	1	196	648
	1	12.8	1	21.0	1	26.7	1	9.3	1	30.2	25.9
	1	19.2	1	28.0	1	27.2	1	13.9	1	38.0	
	1										
COLUMN	432	486			636		432		516		2502
TOTAL	17.3	19.4			25.4		17.3		20.6		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

PERIOD	COUNT ROW PCT COL PCT	SERVICE										ROW TOTAL
		ICRITICAL CARE	MED CARE	SURG CARE	OB CARE	LABOR DELIVER	NBN	NICU	PEDS U	PIC		
	1	11	21	41	51	61						
UNAVAILABLE	1	7	1	1	1	5	1	6	1	2	1	21
	1	33.3	1	4.8	1	23.8	1	28.6	1	9.5	1	1.6
	1	2.4	1	.5	1	1.2	1	2.5	1	1.0	1	
INDIRECT CARE	2	1	219	1	158	1	293	1	173	1	138	981
	1	22.3	1	16.1	1	29.9	1	17.6	1	14.1	1	73.0
	1	76.0	1	82.3	1	67.8	1	72.1	1	71.9	1	
DIRECT CARE	3	1	62	1	33	1	134	1	61	1	52	342
	1	-8.1	1	9.6	1	39.2	1	17.8	1	15.2	1	25.4
	1	21.5	1	17.2	1	31.0	1	25.4	1	27.1	1	
COLUMN TOTAL		288	192	432	240	432	192	17.9	14.3	192	14.3	1344 100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT NURSING

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	1110	15.6
MEDS SUPPLIES EQUIP	3	644	9.0
CHARTING CLERICAL	4	1213	17.0
CONFERENCES	5	233	3.3
TRAVEL TRANSPORT	6	1173	16.5
ADMINISTRATION	7	1080	15.2
ENVIRONMENTAL	8	335	4.7
WAIT TIME	9	1335	18.7
		-----	-----
	TOTAL	7123	100.0
VALID CASES	7128	MISSING CASES	0

Table 22
Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW PCT COL PCT	PROV										ROW TOTAL
		HEAD NUR ER	WAK ER	MAK ER	MAST RN	91C	LPN	91b 91G	91F AIDE	WARD CLE RK		
		1	11	21	31	41	51	61	71	81		
COMMUNICATIVE	2	180	63	416	82	142	65	38	124		1110	
		16.2	5.7	37.5	7.4	12.8	5.9	3.4	11.2		15.6	
		36.9	11.4	18.8	10.0	10.4	9.4	10.1	20.3			
MEDS SUPPLIES	3	24	37	166	133	150	78	43	5		644	
	EQ	3.7	5.7	25.8	20.7	24.5	12.1	6.7	.8		9.0	
		4.9	6.7	7.5	16.1	11.5	11.2	11.4	.8			
CHARTING CLERICAL	4	74	7	525	81	160	64	34	268		1213	
		6.1	.6	43.3	6.7	13.2	5.3	2.8	22.1		17.0	
		15.2	1.3	23.8	9.8	11.7	9.2	9.0	43.8			
CONFERENCES	5	21	8	113	20	42	18	11			233	
		9.0	3.4	48.5	8.6	18.0	7.7	4.7			3.3	
		4.3	1.4	5.1	2.4	3.1	2.6	2.9				
TRAVEL TRANSPORT	6	46	81	216	212	283	185	85	68		1178	
		4.1	6.9	18.3	18.0	24.0	15.7	7.2	5.8		16.5	
		9.8	14.6	9.8	25.7	20.6	26.7	22.6	11.1			
ADMINISTRATION	7	114	247	358	57	86	56	19	93		1080	
		10.6	27.5	33.1	5.3	6.0	5.2	1.8	8.6		15.2	
		23.4	53.7	16.2	6.9	6.3	8.1	5.1	15.2			
ENVIRONMENTAL	8	9	15	27	81	125	36	40	2		335	
		2.7	4.5	8.1	24.2	37.3	13.7	11.9	.6		6.7	
		1.8	2.7	1.2	9.8	9.1	5.2	10.6	.3			
WAIT TIME	9	18	45	389	158	375	192	106	52		1335	
		1.3	3.4	29.1	11.8	26.1	14.4	7.9	3.9		18.7	
		3.7	8.1	17.6	19.2	27.4	27.7	28.2	8.5			
COLUMN TOTAL		488	553	2210	824	1371	594	376	612		7128	
		6.8	7.8	31.0	11.6	19.2	9.7	5.3	8.6		100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 23
Ft Carson

TIME SPENT IN INDIRECT NURSING CARE STUDY
INDIRECT CARE BY SERVICE

ACT	COUNT	SERVICE										RJM TOTAL
		ICU	CRITICAL CARE	MED	SURG	OB	LABOR DELIVER	MBN	NICU	PEDS	PIC	
		1	11	21	41	51	61					
		1	1	1	1	1	1	1	1	1	1	
COMMUNICATIVE	2	173	1	259	1	249	1	181	1	248	1	1110
		15.6	1	23.3	1	22.4	1	16.3	1	22.3	1	15.6
		12.6	1	16.5	1	14.3	1	18.2	1	17.2	1	
MEDS SUPPLIES	3	145	1	125	1	172	1	76	1	126	1	544
		22.5	1	19.4	1	26.7	1	11.8	1	19.6	1	9.0
		10.5	1	7.9	1	9.9	1	7.7	1	6.7	1	
CHARTING CLERICAL	4	224	1	305	1	317	1	108	1	259	1	1213
		18.5	1	25.1	1	26.1	1	8.9	1	21.4	1	17.0
		16.3	1	19.4	1	18.2	1	10.9	1	17.9	1	
CONFERENCES	5	54	1	44	1	49	1	26	1	60	1	233
		23.2	1	18.9	1	21.0	1	11.2	1	25.8	1	3.3
		3.9	1	2.8	1	2.8	1	2.6	1	4.2	1	
TRAVEL TRANSPORT	6	206	1	351	1	265	1	118	1	238	1	1178
		17.5	1	29.8	1	22.5	1	10.0	1	20.2	1	16.5
		15.0	1	22.3	1	15.2	1	11.9	1	16.5	1	
ADMINISTRATIVE	7	193	1	232	1	298	1	166	1	191	1	1080
		17.9	1	21.5	1	27.6	1	15.4	1	17.7	1	15.2
		14.0	1	14.7	1	17.1	1	16.7	1	13.2	1	
ENVIRONMENTAL	8	35	1	73	1	117	1	48	1	62	1	335
		10.4	1	21.8	1	34.9	1	14.3	1	18.5	1	4.7
		2.5	1	4.6	1	6.7	1	4.8	1	4.3	1	
WAIT TIME	9	346	1	185	1	275	1	270	1	259	1	1335
		25.9	1	13.9	1	20.6	1	20.2	1	19.4	1	13.7
		25.1	1	11.8	1	15.8	1	27.2	1	17.9	1	
COLUMNS		1376		1574		1742		993		1443		7128
TOTAL		19.3		22.1		24.4		13.9		20.2		100.0

NUMBER OF MISSING OBSERVATIONS = 0

APPENDIX 24

US ARMY MEDICAL ACTIVITY
FORT DEVENS, MASSACHUSETTES

Table 1

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MARCH	3	1284	39.2	39.2	39.2
APRIL	4	1992	60.8	60.8	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 2
Ft Devens
TIME SPENT IN INDIRECT NURSING CARE STUDY
WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	168	5.1	5.1	5.1
MONDAY	2	480	14.7	14.7	19.8
TUESDAY	3	109	3.3	3.3	23.1
WEDNESDAY	4	864	26.4	26.4	49.5
THURSDAY	5	576	17.6	17.6	67.0
FRIDAY	6	912	27.8	27.8	94.9
SATURDAY	7	168	5.1	5.1	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 3
Ft Devens
TIME SPENT IN INDIRECT NURSING CARE STUDY
SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	2358	72.0	72.0	72.0
EVENING	2	600	18.3	18.3	90.3
NIGHT	3	318	9.7	9.7	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 4

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED	1	1392	42.5	42.5	42.5
SURG	2	1884	57.5	57.5	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 5
Ft Devens
TIME SPENT IN INDIRECT NURSING CARE STUDY
CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED SURG	2.00	3276	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 8

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	702	21.4	21.4	21.4
PERSONAL	0	382	11.7	11.7	33.1
OFF UNIT ACTV	1	273	8.3	8.3	41.4
COMMUNICATIVE	2	312	9.5	9.5	50.9
MEDS SUPPLIES EQUIP	3	145	4.4	4.4	55.4
CHARTING CLERICAL	4	293	8.9	8.9	64.3
CONFERENCES	5	152	4.6	4.6	69.0
TRAVEL TRANSPORT	6	346	10.6	10.6	79.5
ADMINISTRATION	7	301	9.2	9.2	88.7
ENVIRONMENTAL	8	70	2.1	2.1	90.8
WAIT TIME	9	300	9.2	9.2	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 10

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	192	5.9	5.9	5.9
WARDMASTER	2	192	5.9	5.9	11.7
RN	3	570	17.4	17.4	29.1
91C	4	336	10.3	10.3	39.4
LPN	5	156	4.8	4.8	44.1
91B 91F 91G	6	1338	40.8	40.8	85.0
AIDE	7	300	9.2	9.2	94.1
WARD CLERK	8	192	5.9	5.9	100.0
		-----	-----	-----	
	TOTAL	3276	100.0	100.0	
VALID CASES	3276	MISSING CASES	0		

Table 12

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ACT	PROV	ACTIVITY										ADMINISTRATIVE				TOTAL
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
ROW PCT	INDIRECT	C PERSONAL	OFF UNIT	COMMUNIC	MEDS SUP	CHARTING	CONFEREN	TRAVEL	Y ADMINIST	ENVIRONMI	WAIT	TIM	IE	ENTAL	81	91	
CGL FCT	IARE	-11	CI	11	ACTIVE	PLIES EQ	CLERICA	CES	TRANSPORT	RATION	ENTAL	81	91	ENTAL	81	91	
HEAD NURSE	1	21	13	17	42	6	30	18	11	28	1	2	4	1	192		
	1	10.9	6.8	8.9	21.9	3.1	15.6	9.4	5.7	14.6	1	1.0	2.1	1	5.9		
	1	3.0	3.4	6.2	13.5	4.1	10.2	11.8	3.2	9.3	1	2.9	1.3	1			
WARDMASTER	2	10	13	34	16	7	7	7	17	65	1	2	21	1	192		
	1	5.2	6.8	17.7	8.3	3.6	1	3.6	8.9	33.9	1	1.0	10.9	1	5.9		
	1	1.4	3.4	12.5	5.1	4.8	1	4.6	4.9	21.6	1	2.9	7.0	1			
RN	3	81	56	39	84	40	92	38	32	50	1	4	44	1	570		
	1	14.2	9.8	6.8	14.7	7.0	15.1	6.7	5.6	10.5	1	.7	7.7	1	17.4		
	1	11.5	14.7	14.3	26.9	27.6	31.4	25.0	9.2	19.9	1	5.7	14.7	1			
91C	4	80	35	13	24	27	25	10	59	37	1	3	23	1	336		
	1	23.8	10.4	3.9	7.1	8.0	7.4	3.0	17.6	11.0	1	.9	6.6	1	10.3		
	1	11.4	9.2	4.8	7.7	18.6	8.5	6.6	17.1	12.3	1	4.3	7.7	1			
LPN	5	19	15	18	13	8	17	10	7	6	1	4	39	1	156		
	1	12.2	9.6	11.5	8.3	5.1	10.9	6.4	4.5	3.8	1	2.6	25.0	1	4.8		
	1	2.7	3.9	6.6	4.2	5.5	5.8	6.6	2.0	2.0	1	5.7	13.0	1			
91B 91F 91G	6	400	172	119	84	48	79	53	179	23	1	48	133	1	1338		
	1	29.9	12.9	8.9	6.3	3.6	5.9	4.0	13.4	1.7	1	3.6	9.9	1	40.8		
	1	57.0	45.0	43.6	26.9	33.1	27.0	34.9	51.7	7.6	1	68.6	44.3	1			
AIDE	7	86	53	12	30	9	19	16	22	18	1	7	28	1	300		
	1	28.7	17.7	4.0	10.0	3.0	6.3	5.3	7.3	6.0	1	2.3	9.3	1	9.2		
	1	12.3	13.9	4.4	9.6	6.2	6.5	10.5	6.4	6.0	1	10.0	9.3	1			
WARD CLERK	8	5	25	21	19	1	31	1	19	64	1	1	8	1	192		
	1	2.6	13.0	10.9	9.9	1	16.1	1	9.9	33.3	1	4.2	4.2	1	5.9		
	1	.7	6.5	7.7	6.1	1	10.6	1	5.5	21.3	1	2.7	2.7	1			
COLUMN TOTAL		702	382	273	312	145	293	152	346	301	70	2.1	300	9.2	3276	100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 13

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PROV																
COUNT		PERIOD														
ROW	PCT	ISE	HEAD	NUR	WARD	PAST	RN	91C	LPN	91B	91F	AIDE	WARD	CLE	RJW	TOTAL
CCL	PCT	ISE	ISE	ISE	ER					91G			RK			
1	1	30	1	47	1	95	1	48	1	33	1	291	1	65	1	655
UNAVAILABLE	1	4.6	1	7.2	1	14.5	1	7.3	1	5.0	1	44.4	1	9.9	1	23.0
1	15.6	1	24.5	1	16.7	1	14.3	1	21.2	1	21.7	1	21.7	1	24.0	1
2	1	141	1	135	1	394	1	208	1	104	1	647	1	149	1	1919
INDIRECT CARE	1	7.3	1	7.0	1	20.5	1	10.8	1	5.4	1	33.7	1	7.8	1	58.6
1	73.4	1	70.3	1	69.1	1	61.9	1	66.7	1	48.4	1	49.7	1	73.4	1
3	1	21	1	10	1	81	1	80	1	19	1	400	1	86	1	702
DIRECT CARE	1	3.0	1	1.4	1	11.5	1	11.4	1	2.7	1	57.0	1	12.3	1	21.4
1	10.9	1	5.2	1	14.2	1	23.8	1	12.2	1	29.9	1	28.7	1	2.6	1
COLUMN	192	192	192	570	336	156	1338	300	192	3276						
TOTAL	5.9	5.9	5.9	17.4	10.3	4.8	40.8	9.2	100.0							

NUMBER OF MISSING OBSERVATIONS = 0

Table 14

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

		COUNT		PROV		I		HEAD		NUR		WARD		PAST		RN		91C		LPN		91B		91F		AIDE		WARD		CLE		RJW					
		ROW		PCT		ISE		LR		LR		LR		LR		LR		31		41		51		61		71		81		TOTAL		TOTAL					
		2		1		192		1		570		1		336		1		156		1		1338		1		300		1		192		1		3276			
		1		5.9		1		5.9		1		17.4		1		10.3		1		4.8		1		40.8		1		9.2		1		5.9		1		103.0	
		1		100.0		1		100.0		1		100.0		1		100.0		1		100.0		1		100.0		1		100.0		1		100.0		1		100.0	
SERVICE		COLUMN		192		192		192		570		336		336		156		156		1338		300		300		192		192		3276		3276					
MED SURG																																					

NUMBER OF MISSING OBSERVATIONS = 0

Table 15

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

		ACT																	
SERVICE	COUNT	ROW PCT	INDIRECT	C	PERSONAL	OFF	UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	WAIT	TIP	TOTAL	

NUMBER OF MISSING OBSERVATIONS = 0

TABLE 16
Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE			
	COUNT	1			
	ROW PCT	IMED	SURG		ROW
	COL PCT	1			TOTAL
		1		21	
PERTOT	-----	+	-----	+	
	1	1	655	1	655
UNAVAILABLE		1	100.0	1	20.0
		1	20.0	1	
		+	-----	+	
	2	1	1919	1	1919
INDIRECT CARE		1	100.0	1	58.6
		1	58.6	1	
		+	-----	+	
	3	1	702	1	702
DIRECT CARE		1	100.0	1	21.4
		1	21.4	1	
		+	-----	+	
	COLUMN		3276		3276
	TOTAL		100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 17

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

DAY SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

	COUNT		SERVICE		ROW TOTAL
	ROW	PCT	IMED	SURC	
	COL	PCT	I		
			I	2I	
PERTOT	-----	-----	-----	-----	
UNAVAILABLE	1	I	503	I	503
		I	100.0	I	21.3
		I	21.3	I	
INDIRECT CARE	2	I	1346	I	1346
		I	100.0	I	57.1
		I	57.1	I	
DIRECT CARE	3	I	509	I	509
		I	100.0	I	21.6
		I	21.6	I	
COLUMN			2358		2358
TOTAL			100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 18

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY
 EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

	COUNT		SERVICE		ROW TOTAL
	ROW	PCT	IMED	SURG	
	COL	PCT	I		
			I	2I	
PERTOT	-----	-----	-----	-----	
	1	I	109	I	109
UNAVAILABLE		I	100.0	I	18.2
		I	18.2	I	
	-----	-----	-----	-----	
	2	I	324	I	324
INDIRECT CARE		I	100.0	I	54.0
		I	54.0	I	
	-----	-----	-----	-----	
	3	I	167	I	167
DIRECT CARE		I	100.0	I	27.8
		I	27.8	I	
	-----	-----	-----	-----	
	COLUMN		600		600
	TOTAL		100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY
 NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

	COUNT ROW PCT COL PCT	SERVICE		ROW TOTAL
		IMED	SURG	
		I	2I	
PERTOT		-----+	-----+	
UNAVAILABLE	1	I 43	I 43	
		I 100.0	I 13.5	
		I 13.5	I	
INDIRECT CARE	2	I 249	I 249	
		I 100.0	I 78.3	
		I 78.3	I	
DIRECT CARE	3	I 26	I 26	
		I 100.0	I 8.2	
		I 8.2	I	
		-----+	-----+	
	COLUMN	318	318	
	TOTAL	100.0	100.0	

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT NURSING

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	312	16.3
MEDS SUPPLIES EQUIP	3	145	7.6
CHARTING CLERICAL	4	293	15.3
CONFERENCES	5	152	7.9
TRAVEL TRANSPORT	6	346	18.0
ADMINISTRATION	7	301	15.7
ENVIRONMENTAL	8	70	3.6
WAIT TIME	9	300	15.6
		-----	-----
	TOTAL	1919	100.0
VALID CASES	1919	MISSING CASES	0

Table 22
Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW PCT COL PCT	PROV												R34 TOTAL					
		1	11	21	31	41	51	61	71	81									
		HEAD	NUR	MA	MAST	RN	91C	LPM	91B	91F	AIDE	WARD	CLE						
		ISE	ER	ER	ER	ER	91C	LPM	91B	91F	AIDE	WARD	CLE						
		1	11	21	31	41	51	61	71	81									
COMMUNICATIVE	2	1	42	1	16	1	84	1	24	1	13	1	84	1	30	1	19	1	312
		1	13.5	1	5.1	1	26.9	1	7.7	1	4.2	1	25.9	1	9.6	1	6.1	1	16.3
		1	29.6	1	11.9	1	21.3	1	11.5	1	12.5	1	13.0	1	20.1	1	13.5	1	
MEDS SUPPLIES EQ	3	1	6	1	7	1	40	1	27	1	8	1	48	1	9	1		1	145
		1	4.1	1	4.8	1	27.6	1	18.6	1	5.5	1	33.1	1	6.2	1		1	7.6
		1	4.3	1	5.2	1	10.2	1	13.0	1	7.7	1	7.4	1	6.0	1		1	
CHARTING CLERICAL	4	1	30	1		1	92	1	25	1	17	1	79	1	19	1	31	1	293
		1	10.2	1		1	31.4	1	8.5	1	5.8	1	27.0	1	6.5	1	10.6	1	15.3
		1	21.3	1		1	23.4	1	12.0	1	16.3	1	12.2	1	12.8	1	22.0	1	
CONFERENCES	5	1	16	1	7	1	38	1	10	1	10	1	53	1	16	1		1	152
		1	11.8	1	4.6	1	25.0	1	6.6	1	6.6	1	34.9	1	10.5	1		1	7.9
		1	12.8	1	5.2	1	9.6	1	4.8	1	9.6	1	8.2	1	10.7	1		1	
TRAVEL TRANSPORT	6	1	11	1	17	1	32	1	59	1	7	1	179	1	22	1	19	1	346
		1	3.2	1	4.9	1	9.2	1	17.1	1	2.0	1	51.7	1	6.4	1	5.5	1	18.0
		1	7.6	1	12.6	1	8.1	1	28.4	1	6.7	1	27.7	1	14.8	1	13.5	1	
ADMINISTRATION	7	1	28	1	65	1	60	1	37	1	6	1	23	1	18	1	64	1	301
		1	9.3	1	21.6	1	19.9	1	12.3	1	2.0	1	7.6	1	6.0	1	21.3	1	15.7
		1	19.9	1	48.1	1	15.2	1	17.8	1	5.8	1	3.6	1	12.1	1	45.4	1	
ENVIRONMENTAL	8	1	2	1	2	1	4	1	3	1	4	1	48	1	7	1		1	70
		1	2.9	1	2.9	1	5.7	1	4.3	1	5.7	1	68.6	1	10.0	1		1	3.6
		1	1.4	1	1.5	1	1.0	1	1.4	1	3.8	1	7.4	1	4.7	1		1	
WAIT TIME	9	1	4	1	21	1	44	1	23	1	39	1	133	1	28	1	8	1	300
		1	1.3	1	7.0	1	14.7	1	7.7	1	13.0	1	44.3	1	9.3	1	2.7	1	15.6
		1	2.8	1	15.6	1	11.2	1	11.1	1	37.5	1	20.6	1	18.8	1	5.7	1	
COLUMN TOTAL			141		155		394		208		104		647		149		141		1919
			7.3		7.0		20.5		10.8		5.4		33.7		7.8		7.3		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 23

Ft Devens

TIME SPENT IN INDIRECT NURSING CARE STUDY

INDIRECT CARE BY SERVICE

	COUNT ROW PCT COL PCT	SERVICE		RCW TOTAL
		IMED	SURG	
		I	I	
ACT		I	21	
-----+				
	2	I	312	I
COMMUNICATIVE		I	100.0	I
		I	16.3	I
-----+				
	3	I	145	I
MEDS SUPPLIES EQ		I	100.0	I
		I	7.6	I
-----+				
	4	I	293	I
CHARTING CLERICA		I	100.0	I
		I	15.3	I
-----+				
	5	I	152	I
CONFERENCES		I	100.0	I
		I	7.9	I
-----+				
	6	I	346	I
TRAVEL TRANSPORT		I	100.0	I
		I	18.0	I
-----+				
	7	I	301	I
ADMINISTRATION		I	100.0	I
		I	15.7	I
-----+				
	8	I	70	I
ENVIRONMENTAL		I	100.0	I
		I	3.6	I
-----+				
	9	I	300	I
WAIT TIME		I	100.0	I
		I	15.6	I
-----+				
	COLUMN		1919	1919
	TOTAL		100.0	100.0

NUMBER OF MISSING OBSERVATIONS = 1357

APPENDIX 25

KENNER ARMY COMMUNITY HOSPITAL
FORT LEE, VIRGINIA

Table 1

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
MONTHS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
APRIL	4	6108	100.0	100.0	100.0
		<u>6108</u>	<u>100.0</u>	<u>100.0</u>	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 2

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

WEEKDAYS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SUNDAY	1	336	5.5	5.5	5.5
MONDAY	2	36	.6	.6	6.1
TUESDAY	3	1446	23.7	23.7	29.8
WEDNESDAY	4	960	15.7	15.7	45.5
THURSDAY	5	1086	17.8	17.8	63.3
FRIDAY	6	1476	24.2	24.2	87.4
SATURDAY	7	768	12.6	12.6	100.0
		-----	-----	-----	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 3

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

SHIFTS OF DATA COLLECTION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DAY	1	4518	74.0	74.0	74.0
EVENING	2	1014	16.6	16.6	90.6
NIGHT	3	576	9.4	9.4	100.0
		-----	-----	-----	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 4

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

ORIGINAL CLINICAL SETTING

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
SURG	2	1902	31.1	31.1	31.1
MED SURG COMBO	3	1014	16.6	16.6	47.7
ICU STEP DOWN M S	18	3192	52.3	52.3	100.0
		-----	-----	-----	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 5
 Ft Lee
 TIME SPENT IN INDIRECT NURSING CARE STUDY
 CLINICAL SERVICES

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
MED SURG	2.00	6108	100.0	100.0	100.0
		<hr/>	<hr/>	<hr/>	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 8

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

ACTIVITIES OBSERVED

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
DIRECT CARE	-1	1070	17.5	17.5	17.5
PERSONAL	0	779	12.8	12.8	30.3
OFF UNIT ACTV	1	315	5.2	5.2	35.4
COMMUNICATIVE	2	474	7.8	7.8	43.2
MEDS SUPPLIES EQUIP	3	366	6.0	6.0	49.2
CHARTING CLERICAL	4	815	13.3	13.3	62.5
CONFERENCES	5	310	5.1	5.1	67.6
TRAVEL TRANSPORT	6	746	12.2	12.2	79.8
ADMINISTRATION	7	405	6.6	6.6	86.4
ENVIRONMENTAL	8	202	3.3	3.3	89.8
WAIT TIME	9	626	10.2	10.2	100.0
		-----	-----	-----	
	TOTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 10

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
HEAD NURSE	1	288	4.7	4.7	4.7
WARDMASTER	2	384	6.3	6.3	11.0
RN	3	1680	27.5	27.5	38.5
91C	4	558	9.1	9.1	47.6
LPN	5	816	13.4	13.4	61.0
91B 91F 91G	6	1530	25.0	25.0	86.1
AIDE	7	474	7.8	7.8	93.8
WARD CLERK	8	379	6.2	6.2	100.0
		-----	-----	-----	
	TCTAL	6108	100.0	100.0	
VALID CASES	6108	MISSING CASES	0		

Table 12

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

CARE PROVIDER BY ACTIVITY PERFORMED

COUNT	ROW	PCT	IDIRECT	C	PERSONAL	OFF	UNIT	COMMUNIC	MEDS	SUP	CHARTING	CONFEREN	TRAVEL	ADMINIST	ENVIRON	WAIT	TIM	TOTAL				
																			ACT			
PROV	1	18	1	27	1	29	1	45	1	15	1	29	1	27	1	21	1	64	1	13	1	288
HEAD NURSE	1	6.3	1	9.4	1	10.1	1	15.6	1	5.2	1	10.1	1	9.4	1	7.3	1	22.2	1	1	1	4.7
	1	1.7	1	3.5	1	9.2	1	9.5	1	4.1	1	3.6	1	8.7	1	2.8	1	15.8	1	1	1	2.1
WARDMASTER	2	14	1	65	1	86	1	26	1	7	1	2	1	31	1	20	1	113	1	2	1	18
	1	3.6	1	16.9	1	22.4	1	6.8	1	1.8	1	.5	1	8.1	1	5.2	1	29.4	1	.5	1	4.7
	1	1.3	1	8.3	1	27.3	1	5.5	1	1.9	1	.2	1	10.0	1	2.7	1	27.9	1	1.0	1	2.9
RN	3	343	1	131	1	27	1	183	1	190	1	284	1	102	1	136	1	106	1	18	1	160
	1	20.4	1	7.8	1	1.6	1	10.9	1	11.3	1	16.9	1	6.1	1	8.1	1	6.3	1	1.1	1	9.5
	1	32.1	1	16.8	1	8.6	1	38.6	1	51.9	1	34.8	1	32.9	1	18.2	1	25.2	1	8.9	1	25.6
91C	4	121	1	83	1	52	1	29	1	34	1	49	1	30	1	77	1	22	1	11	1	50
	1	21.7	1	14.9	1	9.3	1	5.2	1	6.1	1	8.8	1	5.4	1	13.8	1	3.9	1	2.0	1	9.0
	1	11.3	1	10.7	1	16.5	1	6.1	1	9.3	1	6.0	1	9.7	1	10.3	1	5.4	1	5.4	1	8.0
LPN	5	159	1	92	1	39	1	75	1	50	1	94	1	31	1	125	1	10	1	36	1	105
	1	19.5	1	11.3	1	4.8	1	9.2	1	6.1	1	11.5	1	3.8	1	15.3	1	1.2	1	4.4	1	12.9
	1	14.9	1	11.8	1	12.4	1	15.8	1	13.7	1	11.5	1	10.0	1	16.8	1	2.5	1	17.8	1	16.6
91B 91F 91G	6	295	1	267	1	54	1	51	1	44	1	97	1	64	1	276	1	50	1	93	1	239
	1	19.3	1	17.5	1	3.5	1	3.3	1	2.9	1	6.3	1	4.2	1	18.0	1	3.3	1	6.1	1	15.6
	1	27.6	1	34.3	1	17.1	1	10.8	1	12.0	1	11.9	1	20.6	1	37.0	1	12.3	1	46.0	1	38.2
AIDE	7	119	1	60	1	13	1	24	1	24	1	56	1	24	1	63	1	16	1	42	1	33
	1	25.1	1	12.7	1	2.7	1	5.1	1	5.1	1	11.8	1	5.1	1	13.3	1	3.4	1	8.9	1	7.0
	1	11.1	1	7.7	1	4.1	1	5.1	1	6.6	1	5.9	1	7.7	1	8.4	1	4.0	1	20.8	1	5.3
WARD CLERK	8	1	1	54	1	15	1	41	1	2	1	204	1	1	1	28	1	24	1	1	1	8
	1	.3	1	14.3	1	4.0	1	10.8	1	.5	1	54.0	1	.3	1	7.4	1	6.3	1	1	1	2.1
	1	.1	1	6.9	1	4.8	1	8.6	1	.5	1	25.0	1	.3	1	3.8	1	5.9	1	1	1	1.3
COLUMN TOTAL		1070		779		315		474		366		815		310		746		405		202		626
		17.5		12.8		5.2		7.8		6.0		13.3		5.1		12.2		6.6		3.3		10.2

NUMBER OF MISSING OBSERVATIONS = 0

Table 13
Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY CARE PROVIDER

PERIOD	COUNT ROW PCT COL PCT	PROV										RD4 TOTAL
		HEAD NUR	WARDMAST	RN	91C	LPN	91B 91F 91G	AIDE	WARD CLE RK			
		SE	ER									
		11	21	31	41	51	61	71	81			
UNAVAILABLE	1	56	151	158	135	131	321	73	69			1094
		5.1	13.8	14.4	12.3	12.0	29.3	6.7	6.3			17.9
		19.4	39.3	9.4	24.2	16.1	21.0	15.4	18.3			
INDIRECT CARE	2	214	219	1179	302	526	914	282	308			3944
		5.4	5.6	29.9	7.7	13.3	23.2	7.2	7.8			64.6
		74.3	57.0	70.2	54.1	64.5	59.7	59.5	81.5			
DIRECT CARE	3	18	14	343	121	159	295	119	1			1070
		1.7	1.3	32.1	11.3	14.9	27.6	11.1	.1			17.5
		6.3	3.6	20.4	21.7	19.5	19.3	25.1	.3			
COLUMN TOTAL		288	384	1650	558	816	1530	474	378			6108
		4.7	6.3	27.5	9.1	13.4	25.0	7.8	6.2			100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 14
Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY CARE PROVIDER

SERVICE	COUNT ROW PCT COL PCT	PROV									
		HEAD NUR	WARUMAST RN	91C		LPN	91B 91F		AIDE	WARD CLE	
		1SF	ER	2I	3I	4I	5I	6I	7I	8I	
		1	11	21	31	41	51	61	71	81	
MED SURG	2	288	384	1680	558	816	1530	474	378		
		4.7	6.3	27.5	9.1	13.4	25.0	7.8	6.2		
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
COLUMN TOTAL		288	384	1680	558	816	1530	474	378		
		4.7	6.3	27.5	9.1	13.4	25.0	7.8	6.2		

NUMBER OF MISSING OBSERVATIONS = 0

Table 15

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY

SERVICE BY ACTIVITY PERFORMED

[illegible]

NUMBER OF MISSING OBSERVATIONS = 0

Table 16
Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

	COUNT		SERVICE		ROW TOTAL
	ROW	PCT	IMED	SURG	
	COL	PCT	1		
			1	21	
PERTOT					
	1	1	1094	1	1094
UNAVAILABLE	1	100.0	1		17.9
	1	17.9	1		
	2	1	3944	1	3944
INDIRECT CARE	1	100.0	1		64.6
	1	64.6	1		
	3	1	1070	1	1070
DIRECT CARE	1	100.0	1		17.5
	1	17.5	1		
	COLUMN		6108		6108
	TOTAL		100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Ft Lee

		SERVICE		
	COUNT	I		
	ROW	IMED	SURG	ROW
	COL	PCT		TOTAL
		PCT		
		I	2I	
PERTOT		-----+	-----+	
	1	I 1003	I 1003	1003
UNAVAILABLE		I 100.0	I 22.2	22.2
		I 22.2	I	
		-----+	-----+	
	2	I 2853	I 2853	2853
INDIRECT CARE		I 100.0	I 63.1	63.1
		I 63.1	I	
		-----+	-----+	
	3	I 662	I 662	662
DIRECT CARE		I 100.0	I 14.7	14.7
		I 14.7	I	
		-----+	-----+	
	COLUMN	4518	4518	4518
	TOTAL	100.0	100.0	100.0

25-N

Table 18

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
EVENING SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

	COUNT		SERVICE		ROW TOTAL
	ROW	PCT	IMED	SURG	
	COL	PCT	I		
			I	2I	
PERTOT					
UNAVAILABLE	1	I	69	I	69
		I	100.0	I	6.8
		I	6.8	I	
INDIRECT CARE	2	I	637	I	637
		I	100.0	I	62.8
		I	62.8	I	
DIRECT CARE	3	I	308	I	308
		I	100.0	I	30.4
		I	30.4	I	
COLUMN			1014		1014
TOTAL			100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 19

Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
 NIGHT SHIFT - MAJOR NURSING ACTIVITY CATEGORIES BY SERVICE

		SERVICE			
	COUNT	I			
ROW	PCT	IMED	SURG		ROW
COL	PCT	I			TOTAL
		I		21	
PERTOT		-----+	-----+		
	1	I	22	I	22
UNAVAILABLE		I	100.0	I	3.8
		I	3.8	I	
		-----+	-----+		
	2	I	454	I	454
INDIRECT CARE		I	100.0	I	78.8
		I	78.8	I	
		-----+	-----+		
	3	I	100	I	100
DIRECT CARE		I	100.0	I	17.4
		I	17.4	I	
		-----+	-----+		
	COLUMN		576		576
	TOTAL		100.0		100.0

NUMBER OF MISSING OBSERVATIONS = 0

Table 20
Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
PERCENTAGES OF TIME SPENT IN INDIRECT NURSING

VALUE LABEL	VALUE	FREQUENCY	PERCENT
COMMUNICATIVE	2	474	12.0
MEDS SUPPLIES EQUIP	3	365	9.3
CHARTING CLERICAL	4	815	20.7
CONFERENCES	5	310	7.9
TRAVEL TRANSPORT	6	745	18.9
ADMINISTRATION	7	405	10.3
ENVIRONMENTAL	8	202	5.1
WAIT TIME	9	625	15.9
		-----	-----
	TOTAL	3944	100.0
VALID CASES	3944	MISSING CASES	0

Table 22
Ft Lee

TIME SPENT IN INDIRECT NURSING CARE STUDY
INDIRECT CARE BY CARE PROVIDER

ACT	COUNT ROW PCT COL PCT	PROV										ROW TOTAL
		HEAD NUR	ER	MAST RN	91C	LPN	91B 91G	91F	AIDE	HARD RK	CLE	
		11	21	31	41	51	61	71	81			
COMMUNICATIVE	2	45	26	183	29	75	51	24	41			476
	1	9.5	5.5	38.6	6.1	15.8	13.8	5.1	8.6			12.0
	1	21.0	11.9	15.5	9.6	14.3	5.6	8.5	13.3			
MEDS SUPPLIES EQ	3	15	7	190	34	50	44	24	2			366
	1	4.1	1.9	51.9	9.3	13.7	12.0	6.6	.5			9.3
	1	7.0	3.2	16.1	11.3	9.5	4.8	8.5	.6			
CHARTING CLERICAL	4	29	2	294	49	94	97	56	204			815
	1	3.6	.2	34.8	6.0	11.5	11.9	6.9	25.0			20.7
	1	13.6	.9	24.1	16.2	17.9	15.6	19.9	66.2			
CONFERENCES	5	27	31	102	30	31	64	24	1			310
	1	8.7	10.0	32.9	9.7	10.0	20.6	7.7	.3			7.9
	1	12.6	14.2	8.7	9.9	5.9	7.0	8.5	.3			
TRAVEL TRANSPORT	6	21	20	136	77	125	276	63	28			746
	1	2.6	2.7	18.2	10.3	16.8	37.0	8.4	3.8			18.9
	1	9.8	9.1	11.5	25.5	23.8	35.2	22.3	9.1			
ADMINISTRATION	7	64	113	106	22	10	50	16	24			435
	1	15.8	27.9	26.2	5.4	2.5	12.3	4.0	5.9			13.3
	1	29.9	51.6	9.0	7.3	1.9	5.5	5.7	7.8			
ENVIRONMENTAL	8		2	18	11	36	93	42				292
	1		1.0	8.9	5.4	17.8	45.0	20.8				5.1
	1		.9	1.5	3.6	6.8	10.2	14.9				
WAIT TIME	9	13	18	160	50	105	239	33	8			626
	1	2.1	2.9	25.6	8.0	16.8	38.2	5.3	1.3			15.9
	1	6.1	8.2	13.6	16.6	20.0	25.1	11.7	2.6			
COLUMN TOTAL		214	219	1179	302	526	914	282	308			3944
		5.4	5.6	29.9	7.7	13.3	23.2	7.2	7.8			100.0

NUMBER OF MISSING OBSERVATIONS = 0

TIME SPENT IN INDIRECT NURSING CARE STUDY

NUMBER OF MISSING OBSERVATIONS = 0

10. DISTRIBUTION.

National Technical Information Center (2)

HQDA (DASG-HCD-S) (1)

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